

Steck
Vaughn

Level D

Mastering MATH



Mastering MATH

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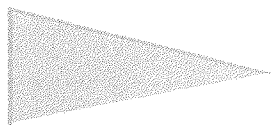


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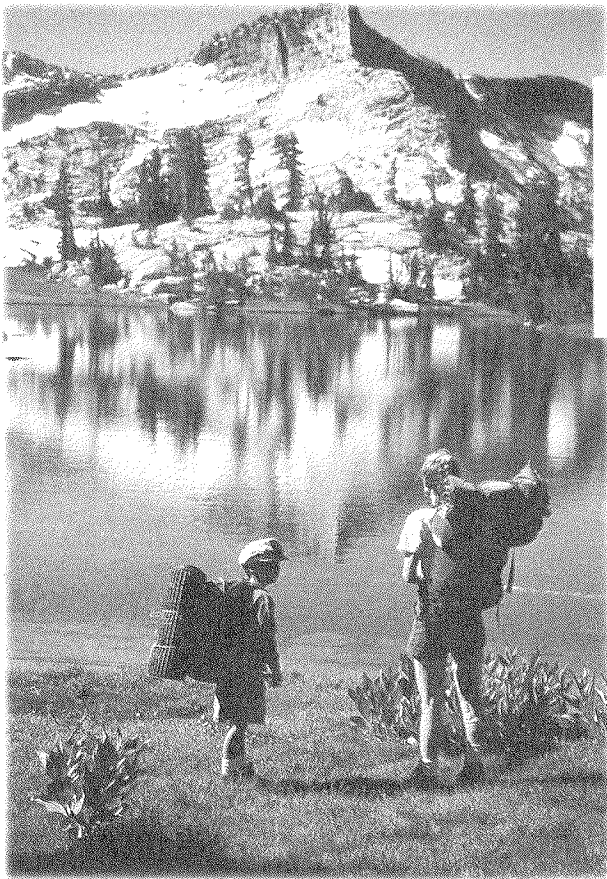
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CHAPTER 1

Place Value Through Ten Thousands

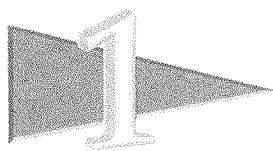


Caleb and his mother hiked near a mountain that is 823 feet tall. Write the height of the mountain in hundreds, tens, and ones.

Solve.

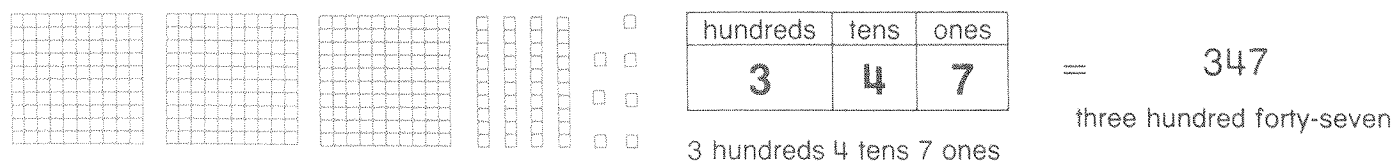
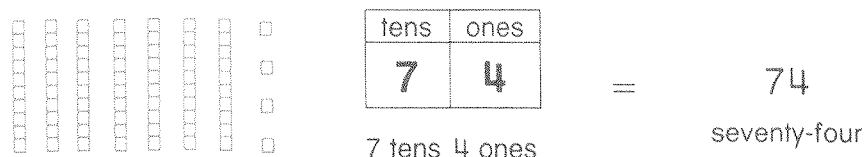
| hundreds | tens | ones |
|----------|------|------|
| | | |

Write your own problem. Use a number that has hundreds, tens, and ones.



Hundreds, Tens, and Ones

We write all numbers with these **digits**: 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9.



Guided Practice

Write each missing number.

1. $82 = \underline{8} \text{ tens } \underline{2} \text{ ones}$

2. $35 = \underline{\quad} \text{ tens } \underline{\quad} \text{ ones}$

3. $61 = \underline{\quad} \text{ tens } \underline{\quad} \text{ one}$

4. $14 = \underline{\quad} \text{ ten } \underline{\quad} \text{ ones}$

5. $52 = \underline{\quad} \text{ tens } \underline{\quad} \text{ ones}$

6. $83 = \underline{\quad} \text{ tens } \underline{\quad} \text{ ones}$

7. $187 = \underline{\quad} \text{ hundred } \underline{\quad} \text{ tens } \underline{\quad} \text{ ones}$

8. $392 = \underline{\quad} \text{ hundreds } \underline{\quad} \text{ tens } \underline{\quad} \text{ ones}$

9. $860 = \underline{\quad} \text{ hundreds } \underline{\quad} \text{ tens } \underline{\quad} \text{ ones}$

10. $737 = \underline{\quad} \text{ hundreds } \underline{\quad} \text{ tens } \underline{\quad} \text{ ones}$

Practice

Write each missing number.

1. $24 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

2. $44 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

3. $98 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

4. $57 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

5. $17 = \underline{\hspace{1cm}}$ ten $\underline{\hspace{1cm}}$ ones

6. $62 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

7. $51 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ one

8. $80 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

9. $75 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

10. $39 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

11. $43 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

12. $99 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

13. $117 = \underline{\hspace{1cm}}$ hundred $\underline{\hspace{1cm}}$ ten $\underline{\hspace{1cm}}$ ones

14. $250 = \underline{\hspace{1cm}}$ hundreds $\underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

15. $638 = \underline{\hspace{1cm}}$ hundreds $\underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

16. $700 = \underline{\hspace{1cm}}$ hundreds $\underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

17. $939 = \underline{\hspace{1cm}}$ hundreds $\underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

18. $405 = \underline{\hspace{1cm}}$ hundreds $\underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

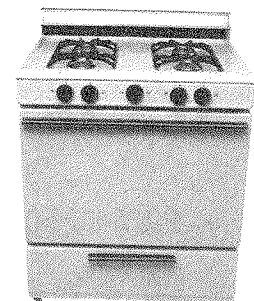
19. $521 = \underline{\hspace{1cm}}$ hundreds $\underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ one

20. $100 = \underline{\hspace{1cm}}$ hundred $\underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

Using Math

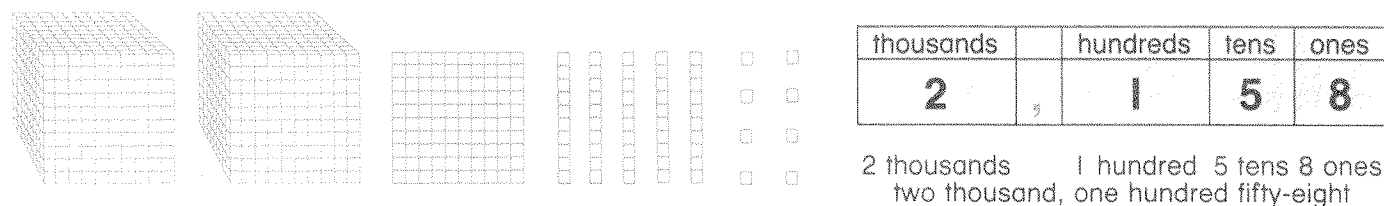
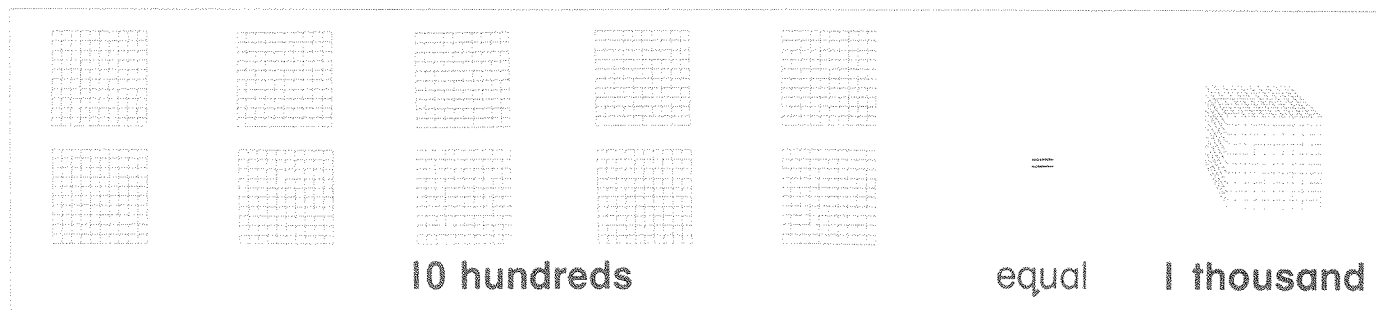
The Carvers are buying a new oven. The oven costs \$352. Write this price as hundreds, tens, and ones.

$\underline{\hspace{1cm}}$ hundreds $\underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones





Thousands



You can write 2 thousands 1 hundred 5 tens 8 ones

in **expanded form** as \longrightarrow $2,000 + 100 + 50 + 8$

The **standard form** of $2,000 + 100 + 50 + 8$ is \longrightarrow **2,158**

A **comma** separates the thousands from the hundreds.

Guided Practice

Write each number in standard form.

- | | |
|--|-----------------------------------|
| 1. $5,000 + 400 + 60 + 5 =$ <u>5,465</u> | 2. $2,000 + 800 + 30 + 9 =$ _____ |
| 3. $3,000 + 600 + 70 + 2 =$ _____ | 4. $8,000 + 100 + 20 + 6 =$ _____ |
| 5. $7,000 + 200 + 40 =$ _____ | 6. $1,000 + 300 + 80 =$ _____ |
| 7. $6,000 + 900 + 50 =$ _____ | 8. $9,000 + 800 + 10 =$ _____ |
| 9. $4,000 + 80 + 2 =$ _____ | 10. $5,000 + 40 + 3 =$ _____ |

Practice

➤ Write each number in standard form.

- | | |
|------------------------------------|------------------------------------|
| 1. $4,000 + 600 + 30 + 3 =$ _____ | 2. $1,000 + 300 + 40 + 8 =$ _____ |
| 3. $9,000 + 900 + 20 + 1 =$ _____ | 4. $600 + 80 + 7 =$ _____ |
| 5. $100 + 50 + 9 =$ _____ | 6. $2,000 + 400 + 8 =$ _____ |
| 7. $7,000 + 300 + 20 =$ _____ | 8. $5,000 + 600 + 10 + 5 =$ _____ |
| 9. $2,000 + 500 + 80 + 4 =$ _____ | 10. $3,000 + 900 + 90 + 9 =$ _____ |
| 11. $700 + 20 + 7 =$ _____ | 12. $8,000 + 600 + 80 + 6 =$ _____ |
| 13. $1,000 + 40 + 2 =$ _____ | 14. $4,000 + 100 + 20 =$ _____ |
| 15. $5,000 + 700 + 50 + 3 =$ _____ | 16. $7,000 + 800 =$ _____ |
| 17. $6,000 + 600 + 20 + 2 =$ _____ | 18. $9,000 + 100 + 40 + 8 =$ _____ |
| 19. $8,000 + 900 + 40 =$ _____ | 20. $3,000 + 50 + 1 =$ _____ |

Using Math

➤ Karen has saved 1,628 pennies in three years. She wants to put them in jars. A large jar holds 1,000 pennies. A small jar holds 100 pennies.



How many large jars does Karen need for her pennies?

She needs _____ large jar.

How many small jars does Karen need for her pennies?

She needs _____ small jars.

How many pennies will be left?

There will be _____ pennies left.



Ten Thousands

Each digit in a number has a **value**. The value of a digit depends on its **place** in a number.

| ten thousands | thousands | | hundreds | tens | ones |
|---------------|-----------|---|----------|----------|----------|
| 4 | 6 | , | 5 | 3 | 8 |

Look at the place and the value of each underlined digit.

| | Digit | Place | Value |
|--------------------|-------|---------------|--------|
| <u>4</u> 6, 5 3 8 | 4 | ten thousands | 40,000 |
| 4 <u>6</u> , 5 3 8 | 6 | thousands | 6,000 |
| 4 6, <u>5</u> 3 8 | 5 | hundreds | 500 |
| 4 6, 5 <u>3</u> 8 | 3 | tens | 30 |
| 4 6, 5 3 <u>8</u> | 8 | ones | 8 |

$$46,538 = 40,000 + 6,000 + 500 + 30 + 8$$

Guided Practice

Write the value of each underlined digit.

1. 7 5, 8 2 0 5,000

2. 1 6, 4 3 3 _____

3. 3, 2 9 4 _____

4. 8 0, 6 9 4 _____

5. 4 7, 3 6 0 _____

6. 9, 1 2 5 _____

7. 6 4, 9 2 3 _____

8. 7 2, 4 0 0 _____

9. 8, 7 0 6 _____

10. 5 3, 2 8 5 _____

Practice

Write the value of each underlined digit.

1. 6 2, 8 5 5 _____

3. 2 5, 7 0 0 _____

5. 1 2, 3 3 4 _____

7. 5, 8 9 0 _____

9. 9 3, 9 0 6 _____

11. 2 0, 8 5 1 _____

13. 6, 7 7 7 _____

15. 7 3, 1 0 0 _____

17. 3 9, 6 5 2 _____

19. 6 2, 0 0 5 _____

2. 7 1, 9 4 3 _____

4. 8, 6 9 3 _____

6. 1 0, 4 6 9 _____

8. 4 4, 3 1 1 _____

10. 3, 6 5 8 _____

12. 8 0, 9 3 6 _____

14. 5 7, 5 7 5 _____

16. 4, 8 8 9 _____

18. 1 5, 5 4 0 _____

20. 9, 1 8 3 _____

Using Math

Yesterday, Hamburger King's sign showed it had sold 32,500 hamburgers in one year. Today, 78 hamburgers were sold. Steve is putting the new numbers on the sign. He has five number cards.

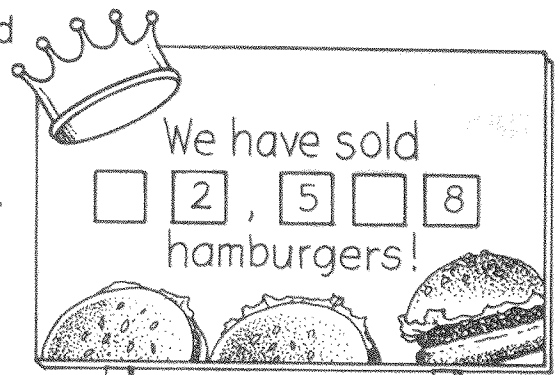
8

7

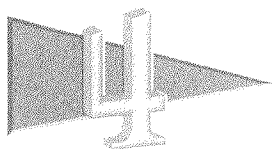
2

5

3



Steve has put three cards on the sign. Write the missing card numbers in the correct place on the sign.



Comparing Numbers

Which number has the greater value: 569 or 573?

When you compare numbers, line up the digits of each number.

Start at the left and compare.

| hundreds | tens | ones |
|----------|------|------|
| 5 | 6 | 9 |
| 5 | 7 | 3 |



Step 1

Compare the hundreds.

5 hundreds are the same as 5 hundreds, so you compare the next digit.

Step 2

Compare the tens.

7 tens are greater than 6 tens, so **573 is greater than 569.**

> means is greater than.

573 > 569 426 > 395

< means is less than.

392 < 428 398 < 399

Guided Practice

Ring **greater** or **less**. Then ring > or <.

| | |
|---|---|
| 1. 217 is greater less than 271 217 271 > < | 2. 852 is greater less than 749 852 749 > < |
| 3. 1,036 is greater less than 1,163 1,036 1,163 > < | 4. 2,168 is greater less than 2,174 2,168 2,174 > < |

Practice

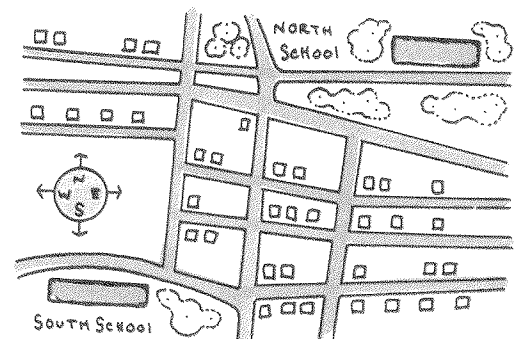
Compare. Ring $>$ or $<$.

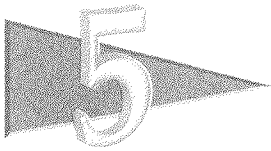
| | | |
|--------------------------------|---------------------------------|---------------------------------|
| 1. $944 > 494$ $<$ | 2. $1,540 > 1,539$ $<$ | 3. $90,037 > 90,377$ $<$ |
| 4. $30,894 > 40,894$ $<$ | 5. $890 > 980$ $<$ | 6. $2,165 > 1,265$ $<$ |
| 7. $635 > 735$ $<$ | 8. $4,691 > 4,690$ $<$ | 9. $89,460 > 84,460$ $<$ |
| 10. $268 > 258$ $<$ | 11. $25,344 > 25,434$ $<$ | 12. $6,555 > 6,565$ $<$ |
| 13. $3,709 > 3,708$ $<$ | 14. $168 > 618$ $<$ | 15. $85,183 > 58,183$ $<$ |
| 16. $550 > 559$ $<$ | 17. $7,320 > 7,820$ $<$ | 18. $399 > 400$ $<$ |

Using Math

In Centerville, there are two schools. South School has 282 students. North School has 289 students. Which school has less students?

_____ has less students.

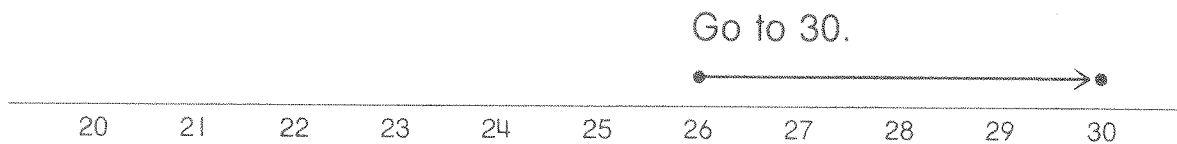




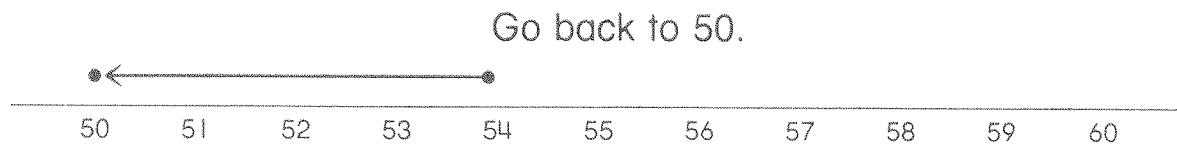
Rounding to Tens

When you **round** small numbers, you usually go to the nearest ten.

Round 26 to the nearest ten.

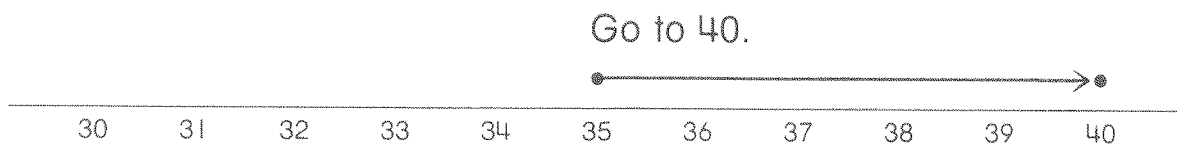


Round 54 to the nearest ten.



If the ones' digit is **5 or more**, round to the next ten.

Round 35 to the nearest ten.



Guided Practice

Round each number to the nearest ten.

1. 87 90

2. 52 _____

3. 22 _____

4. 91 _____

5. 17 _____

6. 63 _____

7. 75 _____

8. 44 _____

9. 36 _____

10. 8 _____

11. 59 _____

12. 72 _____

Practice


Round each number to the nearest ten.

- | | | | |
|--------------|--------------|--------------|--------------|
| 1. 14 _____ | 2. 58 _____ | 3. 29 _____ | 4. 75 _____ |
| 5. 72 _____ | 6. 45 _____ | 7. 93 _____ | 8. 84 _____ |
| 9. 81 _____ | 10. 66 _____ | 11. 7 _____ | 12. 42 _____ |
| 13. 25 _____ | 14. 12 _____ | 15. 54 _____ | 16. 88 _____ |
| 17. 37 _____ | 18. 76 _____ | 19. 19 _____ | 20. 63 _____ |
| 21. 82 _____ | 22. 65 _____ | 23. 44 _____ | 24. 22 _____ |
| 25. 91 _____ | 26. 55 _____ | 27. 28 _____ | 28. 67 _____ |
| 29. 78 _____ | 30. 32 _____ | 31. 64 _____ | 32. 51 _____ |
| 33. 18 _____ | 34. 48 _____ | 35. 23 _____ | 36. 59 _____ |
| 37. 34 _____ | 38. 77 _____ | 39. 94 _____ | 40. 35 _____ |
| 41. 68 _____ | 42. 89 _____ | 43. 46 _____ | 44. 53 _____ |
| 45. 92 _____ | 46. 33 _____ | 47. 57 _____ | 48. 9 _____ |

Using Math

- Pam's father is ordering a cake for her birthday party.
There will be 17 people at the party.
What size cake should Pam's father buy?

He should buy size _____ cake.



| Size | Number of People | Cost |
|------|------------------|---------|
| A | 10 People | \$9.00 |
| B | 20 People | \$15.00 |
| C | 30 People | \$20.00 |



Rounding Large Numbers

You learned how to round small numbers. Now you will learn how to round large numbers.

Round 758 to the nearest ten.



- | | | |
|--------|---|--------------|
| Step 1 | Underline the place you are rounding to. | 7 5 8 |
| Step 2 | Circle the next digit to the right. | 7 <u>5</u> 8 |
| Step 3 | If the circled digit is 5 or more , round up to the nearest ten. | 7 6 0 |

Guided Practice

Round each number to the nearest ten.

- | | |
|-------------------|----------------|
| 1. 329 <u>330</u> | 2. 583 _____ |
| 3. 2,065 _____ | 4. 5,879 _____ |

Round each number to the nearest hundred.

- | | |
|-------------------|-----------------|
| 5. 863 <u>900</u> | 6. 5,916 _____ |
| 7. 729 _____ | 8. 10,354 _____ |

Round each number to the nearest thousand.

- | | |
|-----------------------|------------------|
| 9. 1,762 <u>2,000</u> | 10. 24,333 _____ |
|-----------------------|------------------|

Practice

Round each number to the nearest ten.

- | | | |
|------------------|-----------------|----------------|
| 1. 454 _____ | 2. 758 _____ | 3. 2,175 _____ |
| 4. 1,975 _____ | 5. 5,333 _____ | 6. 114 _____ |
| 7. 628 _____ | 8. 115 _____ | 9. 3,486 _____ |
| 10. 30,562 _____ | 11. 7,979 _____ | 12. 848 _____ |

Round each number to the nearest hundred.

- | | | |
|------------------|-----------------|------------------|
| 13. 460 _____ | 14. 194 _____ | 15. 1,542 _____ |
| 16. 2,835 _____ | 17. 3,561 _____ | 18. 250 _____ |
| 19. 752 _____ | 20. 942 _____ | 21. 10,164 _____ |
| 22. 65,666 _____ | 23. 8,119 _____ | 24. 580 _____ |

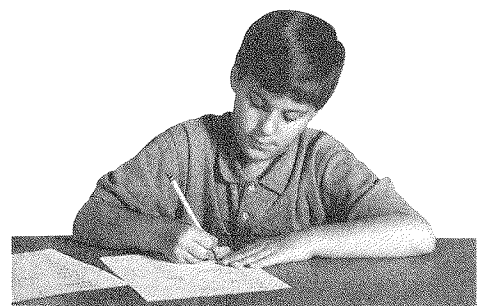
Round each number to the nearest thousand.

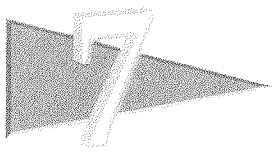
- | | | |
|------------------|------------------|------------------|
| 25. 1,232 _____ | 26. 7,620 _____ | 27. 32,520 _____ |
| 28. 26,589 _____ | 29. 52,178 _____ | 30. 4,360 _____ |

Using Math

Ken writes for the school paper. He is writing a story about the Firefighters' Day Fair. There were 2,682 tickets sold for the fair. In his story, Ken rounds the number of tickets sold to the nearest hundred. What number does Ken use in his story?

Ken writes that about _____ tickets were sold.

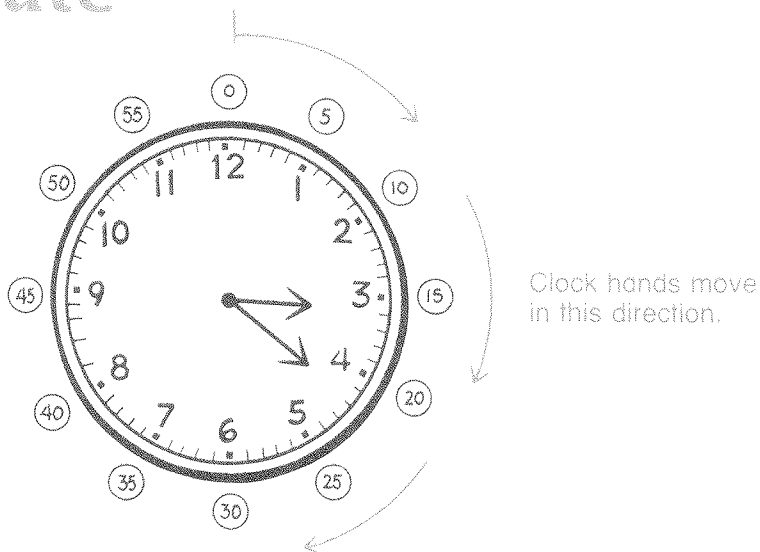




Time to the Minute

There are 12 hours on a clock.
Every hour has 60 minutes.
Each minute of an hour is
shown by a minute mark.

What time is it?



Step 1 Look at the short hand. It is the **hour hand**. It points to 3.
The hour is 3.

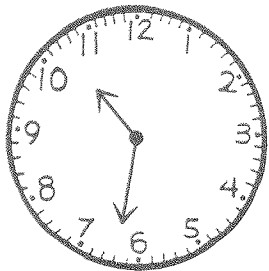
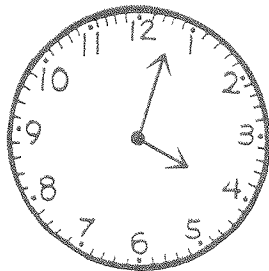
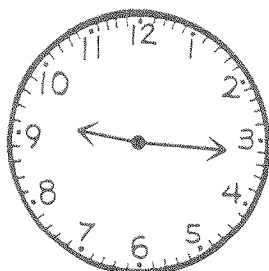
Step 2 Look at the long hand. It is the **minute hand**. Start at the 12, and count by fives to the number just before the minute hand (5-10-15-20). Then count by ones (20-21-22).



The time is 3:22.

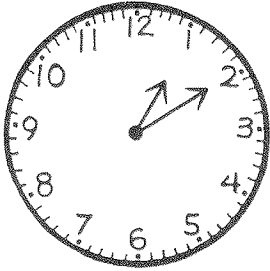
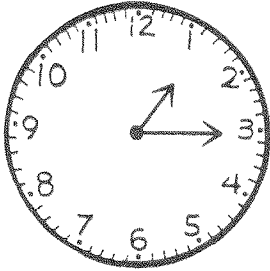
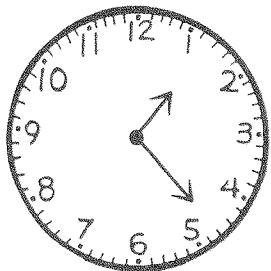
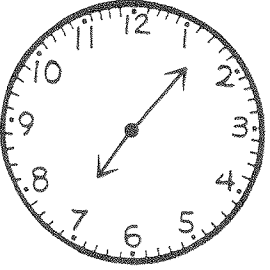
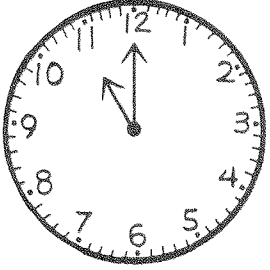
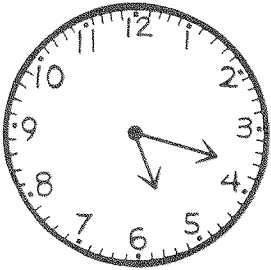
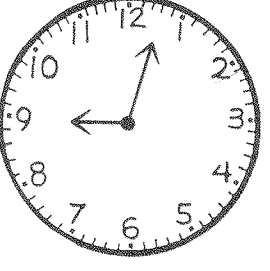
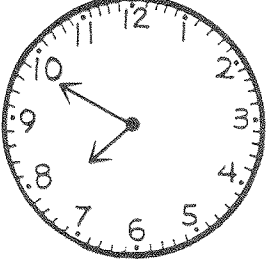
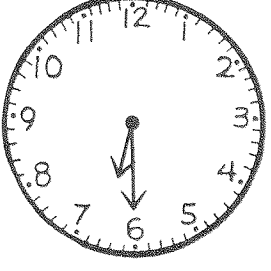
Guided Practice

Write each time.

| | | |
|--|---|---|
| 1.  <u>10:32</u> | 2.  _____ | 3.  _____ |
|--|---|---|

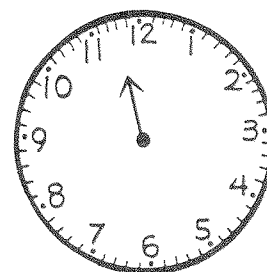
Practice

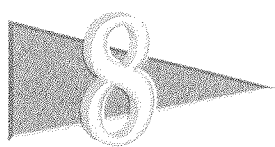
Write each time.

| | | |
|--|--|--|
| 1.  _____ | 2.  _____ | 3.  _____ |
| 4.  _____ | 5.  _____ | 6.  _____ |
| 7.  _____ | 8.  _____ | 9.  _____ |

Using Math

The bus stops at Center Street at 11:27. Draw a minute hand on the clock to show where the minute hand will be when it is 11:27.



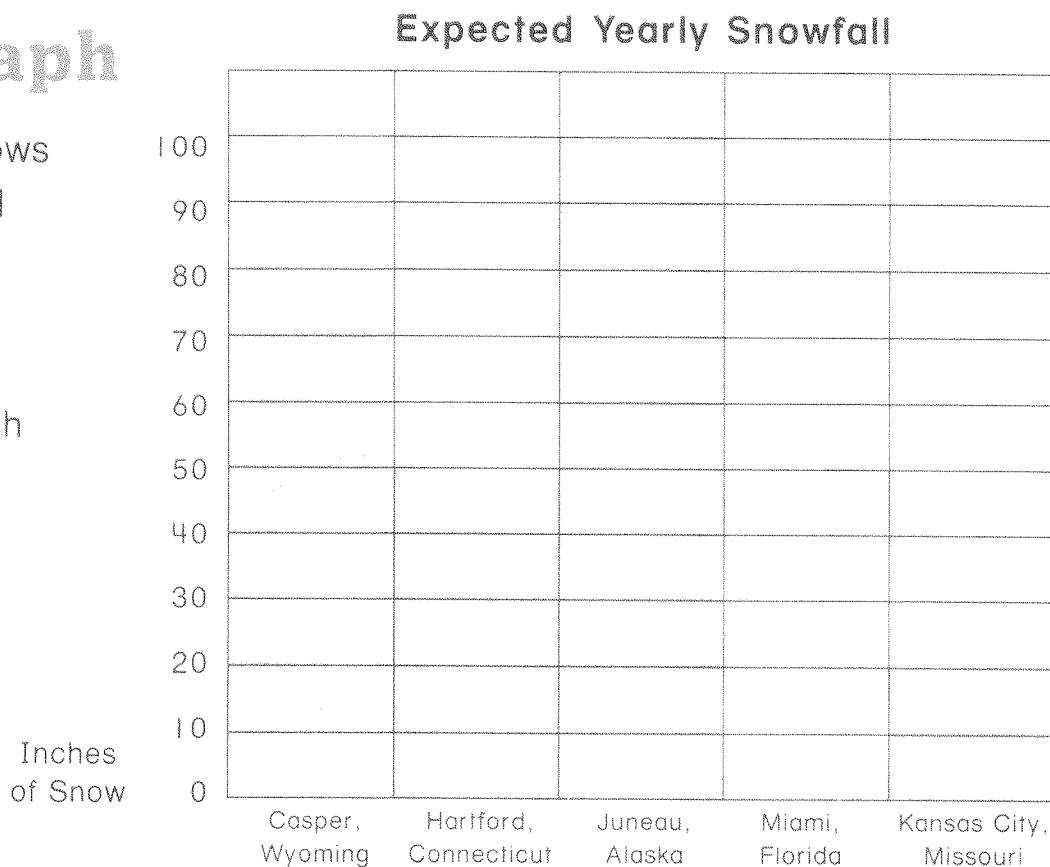


Problem Solving

Use a Graph

This *bar graph* shows how much snowfall some cities expect each year.

On this graph, each space shows 10 inches of snow.



How many inches of snow can be expected in Casper, Wyoming?

- Step 1** Find **Casper** on the graph.
- Step 2** With your finger, trace the color bar above Casper to the top.
- Step 3** Move your finger left to find the number.

Casper can expect to get _____ inches of snowfall.

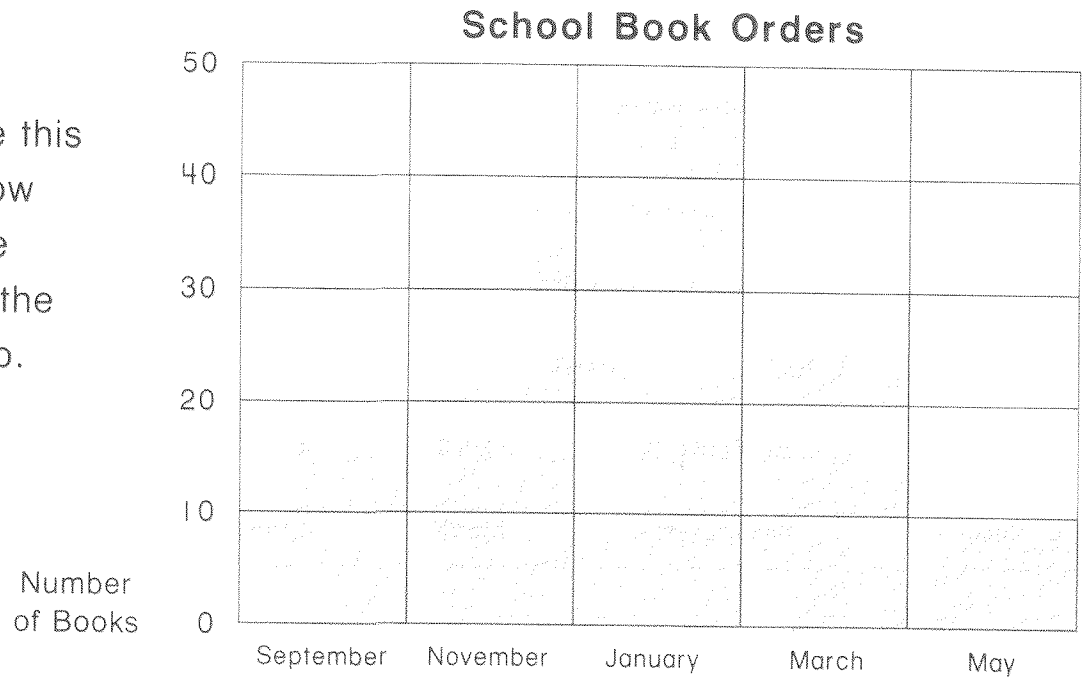
Guided Practice

Write how many inches of snowfall for each city.

1. _____ Hartford, Connecticut
2. _____ Juneau, Alaska
3. _____ Miami, Florida
4. _____ Kansas City, Missouri

Practice

Mrs. Bruce made this graph to show how many books were ordered through the student book club.



► Use the graph to answer the questions.

1. In which month were the most books ordered?

2. In which month were the fewest books ordered?

3. In which month were 40 books ordered?

4. In which month were 30 books ordered?

► Use the graph to solve.

5. How many more books were ordered in January than in March?

more books

6. How many more books were ordered in March than in September?

more books

CHAPTER 1 Review

➤ Write each missing number. pages 2–3

1. $86 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

2. $42 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

3. $15 = \underline{\hspace{1cm}}$ ten $\underline{\hspace{1cm}}$ ones

4. $79 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

5. $231 = \underline{\hspace{1cm}}$ hundreds $\underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ one

6. $450 = \underline{\hspace{1cm}}$ hundreds $\underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

➤ Write each number in standard form. pages 4–5

7. $600 + 80 + 3 = \underline{\hspace{2cm}}$

8. $100 + 70 + 1 = \underline{\hspace{2cm}}$

9. $2,000 + 900 + 40 + 4 = \underline{\hspace{2cm}}$

10. $5,000 + 20 + 8 = \underline{\hspace{2cm}}$

➤ Write the value of each underlined digit. pages 6–7

11. 6, 8 4 0 $\underline{\hspace{1cm}}$

12. 9, 1 5 3 $\underline{\hspace{1cm}}$

13. 5 2, 7 1 4 $\underline{\hspace{1cm}}$

14. 3 3, 9 4 5 $\underline{\hspace{1cm}}$

15. 7 0, 9 5 0 $\underline{\hspace{1cm}}$

16. 1 8, 2 2 6 $\underline{\hspace{1cm}}$

➤ Compare. Ring $>$ or $<$. pages 8–9

| | | |
|---|---|---|
| 17. $121 \begin{matrix} > \\ < \end{matrix} 112$ | 18. $569 \begin{matrix} > \\ < \end{matrix} 659$ | 19. $83,122 \begin{matrix} > \\ < \end{matrix} 84,220$ |
| 20. $3,450 \begin{matrix} > \\ < \end{matrix} 3,452$ | 21. $45,710 \begin{matrix} > \\ < \end{matrix} 45,709$ | 22. $635 \begin{matrix} > \\ < \end{matrix} 536$ |

CHAPTER 1 Review

Round each number to the nearest ten. pages 10–11

23. 32 _____

24. 78 _____

25. 41 _____

26. 53 _____

27. 65 _____

28. 86 _____

Round each number to the nearest ten. pages 12–13

29. 356 _____

30. 642 _____

31. 3,571 _____

32. 1,081 _____

33. 7,455 _____

34. 162 _____

Round each number to the nearest hundred. pages 12–13

35. 581 _____

36. 242 _____

37. 44,172 _____

38. 3,803 _____

39. 9,696 _____

40. 768 _____

Round each number to the nearest thousand. pages 12–13

41. 5,981 _____

42. 7,542 _____

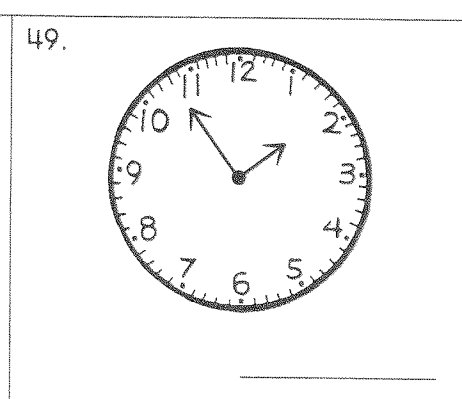
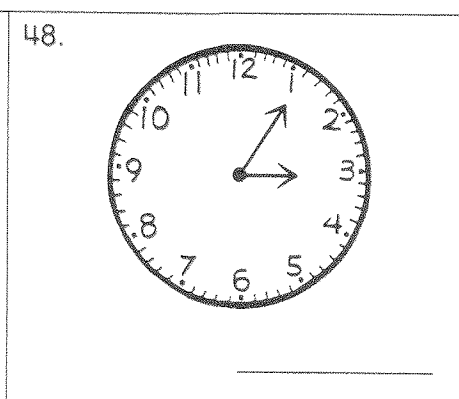
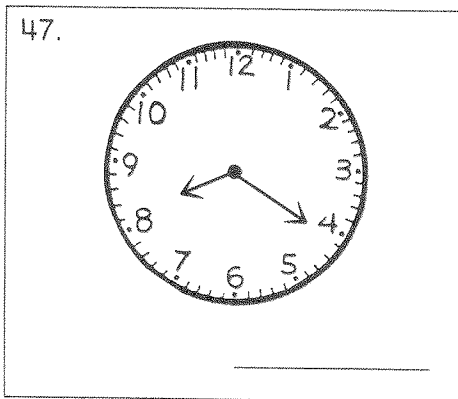
43. 35,166 _____

44. 17,400 _____

45. 82,613 _____

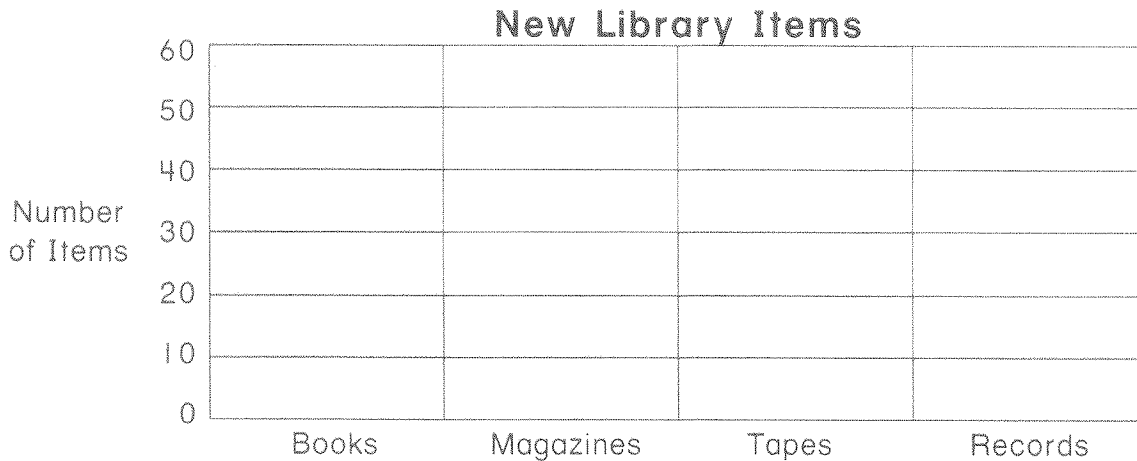
46. 2,257 _____

Write each time. pages 14–15



1 Review

Ms. Dale buys items for the library.
She makes this graph to show what she has bought.



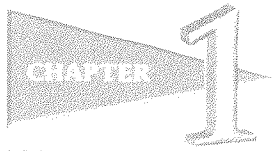
Look at the graph.
Write how many items.

pages 16–17

| | |
|-----------------|-----------------|
| 50. _____ Books | 51. _____ Tapes |
|-----------------|-----------------|

Use the graph to answer.

| | |
|--|--|
| 52. What item did Ms. Dale buy most? _____ | 53. What item did Ms. Dale buy least? _____ |
| 54. How many more books did Ms. Dale buy than magazines? <div style="border: 1px solid black; width: 100px; height: 100px; margin: 10px 0; display: flex; align-items: center; justify-content: center;"> <div style="border-bottom: 1px solid black; width: 80%;"></div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 100px; height: 100px; margin-right: 10px;"></div> <div>more books</div> </div> | 55. How many more tapes did Ms. Dale buy than records? <div style="border: 1px solid black; width: 100px; height: 100px; margin: 10px 0; display: flex; align-items: center; justify-content: center;"> <div style="border-bottom: 1px solid black; width: 80%;"></div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 100px; height: 100px; margin-right: 10px;"></div> <div>more tapes</div> </div> |



Test

Write each missing number.

1. $27 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

2. $53 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

Write each number in standard form.

3. $800 + 30 + 6 = \underline{\hspace{2cm}}$

4. $4,000 + 500 + 30 = \underline{\hspace{2cm}}$

Write the value of each underlined digit.

5. 9, 8 6 3 $\underline{\hspace{1cm}}$

6. 5 2, 0 3 1 $\underline{\hspace{1cm}}$

Compare. Ring $>$ or $<$.

7. 9,653 $\begin{matrix} > \\ < \end{matrix}$ 9,643

8. 38,622 $\begin{matrix} > \\ < \end{matrix}$ 38,822

9. 8,633 $\begin{matrix} > \\ < \end{matrix}$ 9,833

Round each number to the nearest ten.

10. 72 $\underline{\hspace{1cm}}$

11. 455 $\underline{\hspace{1cm}}$

12. 157 $\underline{\hspace{1cm}}$

Round each number to the nearest hundred.

13. 780 $\underline{\hspace{1cm}}$

14. 3,829 $\underline{\hspace{1cm}}$

15. 564 $\underline{\hspace{1cm}}$

Round each number to the nearest thousand.

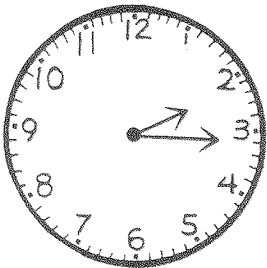
16. 4,582 $\underline{\hspace{1cm}}$

17. 73,391 $\underline{\hspace{1cm}}$

18. 6,633 $\underline{\hspace{1cm}}$

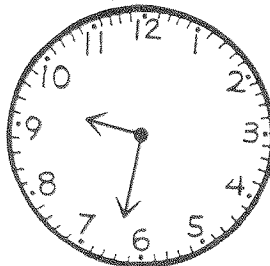
Write each time.

19.



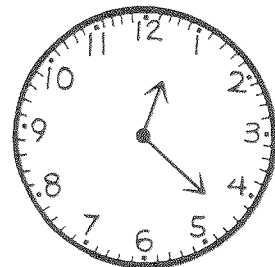
$\underline{\hspace{2cm}}$

20.

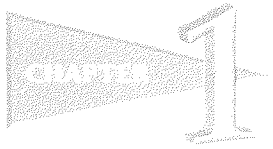


$\underline{\hspace{2cm}}$

21.

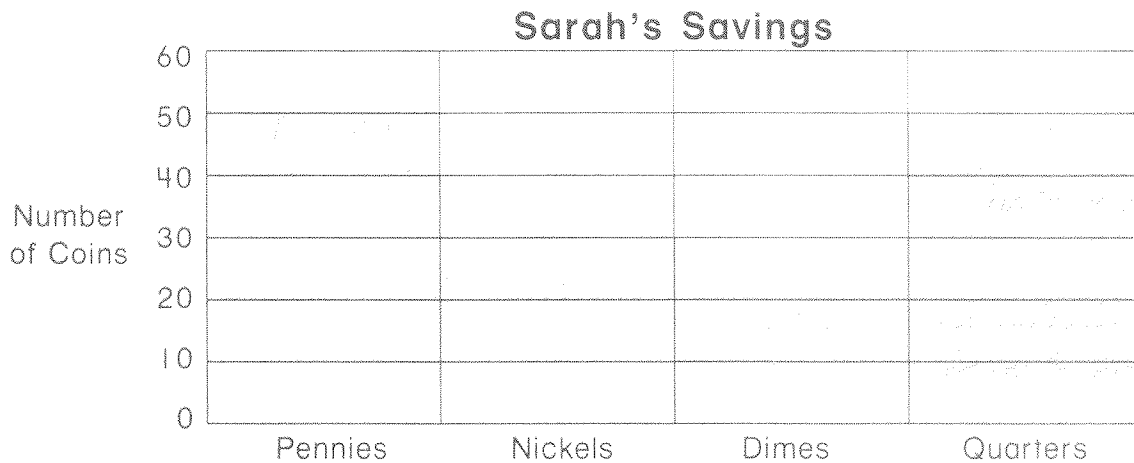


$\underline{\hspace{2cm}}$



Test

Sarah saves coins in a jar. She made this graph after she counted them. It shows how many coins she has.



Look at the graph.

Write how many items.

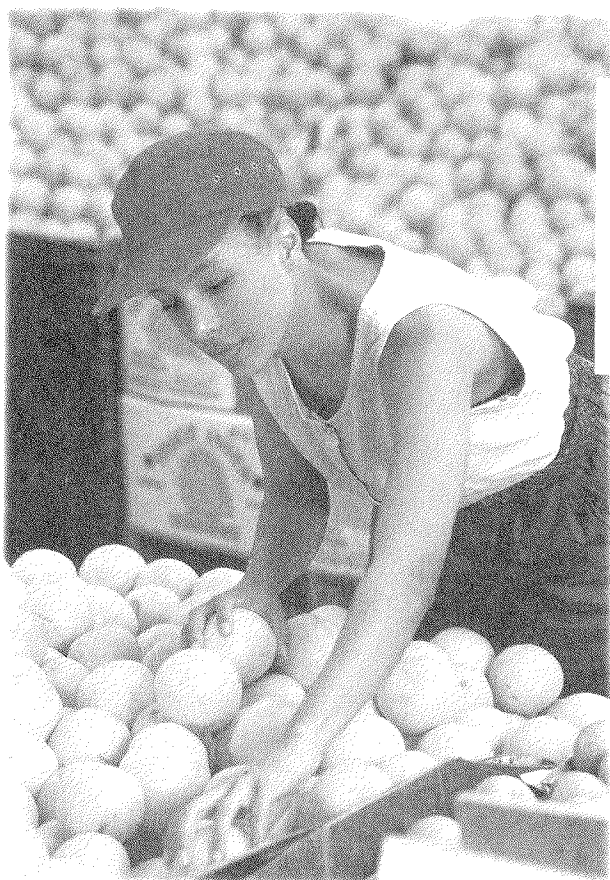
| | |
|-------------------|--------------------|
| 22. _____ Pennies | 23. _____ Quarters |
|-------------------|--------------------|

Use the graph to answer.

| | |
|--|--|
| 24. What coin has Sarah saved the most? _____ | 25. What coin has Sarah saved the least? _____ |
| 26. How many more pennies than nickels did Sarah save? <div style="border: 1px solid black; width: 100px; height: 100px; margin: 10px auto; display: flex; align-items: center; justify-content: center;"><div style="border-bottom: 1px solid black; width: 50px;"></div></div> _____ more pennies | 27. How many more quarters than dimes did Sarah save? <div style="border: 1px solid black; width: 100px; height: 100px; margin: 10px auto; display: flex; align-items: center; justify-content: center;"><div style="border-bottom: 1px solid black; width: 50px;"></div></div> _____ more quarters |

2

Addition and Subtraction

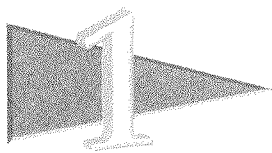


Sondra's mom bought some grapefruit and oranges at the grocery store. She bought 12 grapefruit and 12 oranges. How many pieces of fruit did Sondra's mom buy?

Solve.

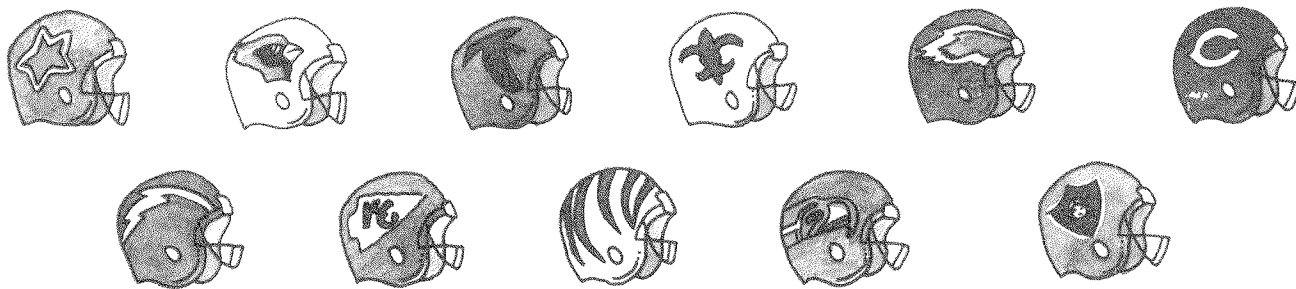


► Write a problem about buying something you like at the grocery store.



Adding to 18

You add to find out how many there are in all.



How many helmets are there in all?

Add: 6 helmets + 5 helmets = 11 helmets in all.

Write: $6 + 5 = 11$ or
$$\begin{array}{r} 6 \\ + 5 \\ \hline 11 \end{array}$$

The numbers you add are called **addends**. 6 and 5 are addends.

The answer is called the **sum**. 11 is the sum.

Guided Practice

Add.

| | | | |
|---|---|---|---|
| 1. $\begin{array}{r} 2 \\ + 5 \\ \hline 7 \end{array}$ | 2. $\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$ | 3. $\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$ | 4. $\begin{array}{r} 3 \\ + 8 \\ \hline \end{array}$ |
| 5. $3 + 0 =$ | 6. $5 + 8 =$ | 7. $9 + 9 =$ | 8. $2 + 4 =$ |

Practice

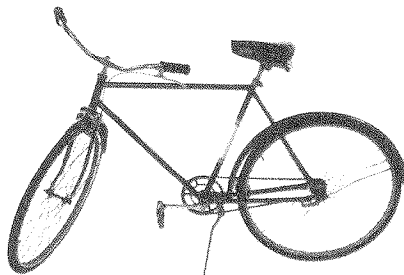
Add.

| | | | |
|---|--|--|--|
| 1. $\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$ | 2. $\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$ | 3. $\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$ | 4. $\begin{array}{r} 4 \\ + 8 \\ \hline \end{array}$ |
| 5. $\begin{array}{r} 5 \\ + 6 \\ \hline \end{array}$ | 6. $\begin{array}{r} 6 \\ + 9 \\ \hline \end{array}$ | 7. $\begin{array}{r} 8 \\ + 7 \\ \hline \end{array}$ | 8. $\begin{array}{r} 5 \\ + 8 \\ \hline \end{array}$ |
| 9. $\begin{array}{r} 7 \\ + 6 \\ \hline \end{array}$ | 10. $\begin{array}{r} 8 \\ + 8 \\ \hline \end{array}$ | 11. $\begin{array}{r} 9 \\ + 7 \\ \hline \end{array}$ | 12. $\begin{array}{r} 6 \\ + 5 \\ \hline \end{array}$ |
| 13. $4 + 5 =$ | 14. $5 + 5 =$ | 15. $7 + 7 =$ | 16. $5 + 7 =$ |

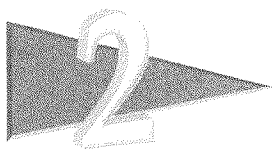
Using Math

A bike shop has 7 ten-speed bikes and 6 dirt bikes.
How many bikes are there in all?

There are _____ bikes in all.



Work here.



Adding 2-Digit Numbers

Step 1 Add the ones.

| tens | ones |
|------|------|
| 4 | 6 |
| 1 | 2 |
| 5 | 8 |

Step 2 Add the tens.

+

Sometimes you need to **regroup** to add.

Step 1 Add the ones.

7 ones + 5 ones = 12 ones

Regroup 12 ones as 1 ten 2 ones.

Write 2 in the ones' place.

Write 1 in the tens' column.

| tens | ones |
|------|------|
| 1 | |
| 4 | 7 |
| 2 | 5 |
| 7 | 2 |

Step 2 Add the tens.

Guided Practice

Add.

| | | | | |
|--|---|---|---|---|
| 1. $\begin{array}{r} 27 \\ + 46 \\ \hline 73 \end{array}$ | 2. $\begin{array}{r} 13 \\ + 24 \\ \hline \end{array}$ | 3. $\begin{array}{r} 15 \\ + 25 \\ \hline \end{array}$ | 4. $\begin{array}{r} 39 \\ + 30 \\ \hline \end{array}$ | 5. $\begin{array}{r} 46 \\ + 38 \\ \hline \end{array}$ |
|--|---|---|---|---|

Practice

Add.

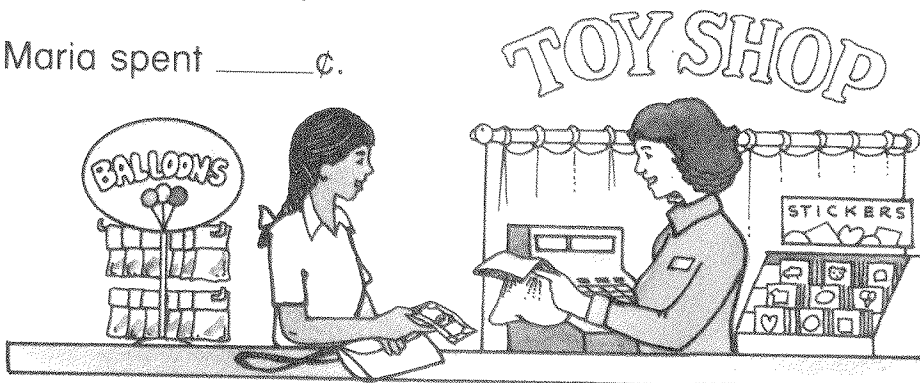
| | | | | |
|--|--|--|--|--|
| 1. $\begin{array}{r} 13 \\ + 28 \\ \hline \end{array}$ | 2. $\begin{array}{r} 15 \\ + 78 \\ \hline \end{array}$ | 3. $\begin{array}{r} 26 \\ + 24 \\ \hline \end{array}$ | 4. $\begin{array}{r} 34 \\ + 46 \\ \hline \end{array}$ | 5. $\begin{array}{r} 16 \\ + 36 \\ \hline \end{array}$ |
| 6. $\begin{array}{r} 22 \\ + 17 \\ \hline \end{array}$ | 7. $\begin{array}{r} 53 \\ + 19 \\ \hline \end{array}$ | 8. $\begin{array}{r} 29 \\ + 31 \\ \hline \end{array}$ | 9. $\begin{array}{r} 29 \\ + 12 \\ \hline \end{array}$ | 10. $\begin{array}{r} 33 \\ + 58 \\ \hline \end{array}$ |
| 11. $\begin{array}{r} 17 \\ + 42 \\ \hline \end{array}$ | 12. $\begin{array}{r} 25 \\ + 67 \\ \hline \end{array}$ | 13. $\begin{array}{r} 26 \\ + 41 \\ \hline \end{array}$ | 14. $\begin{array}{r} 13 \\ + 27 \\ \hline \end{array}$ | 15. $\begin{array}{r} 21 \\ + 49 \\ \hline \end{array}$ |

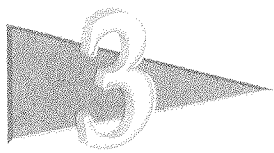
Using Math

Maria took her brother to the toy store. She bought him a balloon for 35¢ and a sticker for 15¢. How much did Maria spend?

Maria spent _____¢.

Work here.





Adding 3- and 4-Digit Numbers

Sometimes when you add large numbers, you regroup more than one time.

Step 1 Add the ones.
Regroup 12 ones as
1 ten 2 ones.

| | hundreds | tens | ones |
|---|----------|------|------|
| | 6 | 8 | 9 |
| + | 2 | 7 | 3 |
| | 9 | 6 | 2 |

Step 2 Add the tens.
Regroup 16 tens as
1 hundred 6 tens.

Step 3 Add the hundreds.

Guided Practice

Add.

| | | | |
|---|---|---|---|
| 1. $\begin{array}{r} 11 \\ 131 \\ + 289 \\ \hline 420 \end{array}$ | 2. $\begin{array}{r} 467 \\ + 133 \\ \hline \end{array}$ | 3. $\begin{array}{r} 328 \\ + 492 \\ \hline \end{array}$ | 4. $\begin{array}{r} 3,612 \\ + 556 \\ \hline \end{array}$ |
| 5. $\begin{array}{r} 464 \\ + 235 \\ \hline \end{array}$ | 6. $\begin{array}{r} 1,251 \\ + 670 \\ \hline \end{array}$ | 7. $\begin{array}{r} 7,096 \\ + 1,930 \\ \hline \end{array}$ | 8. $\begin{array}{r} 758 \\ + 764 \\ \hline \end{array}$ |

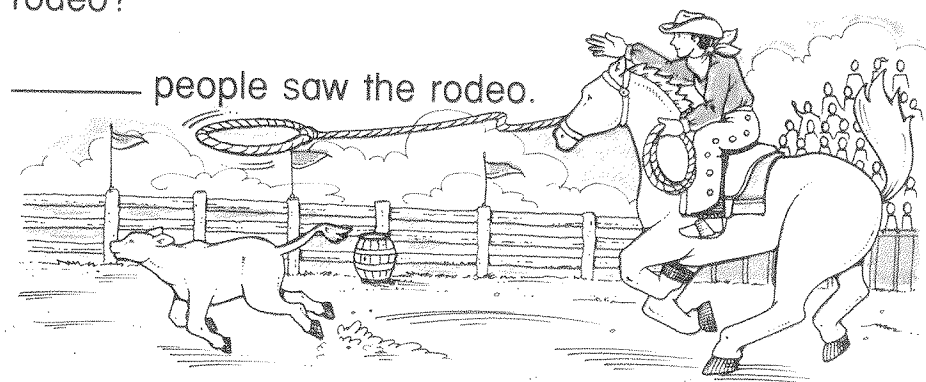
Practice

Add.

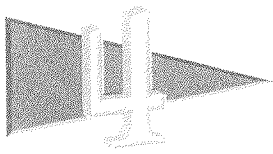
| | | | | |
|--|--|--|--|--|
| 1. $\begin{array}{r} 129 \\ + 663 \\ \hline \end{array}$ | 2. $\begin{array}{r} 429 \\ + 169 \\ \hline \end{array}$ | 3. $\begin{array}{r} 338 \\ + 525 \\ \hline \end{array}$ | 4. $\begin{array}{r} 817 \\ + 156 \\ \hline \end{array}$ | 5. $\begin{array}{r} 4,175 \\ + 912 \\ \hline \end{array}$ |
| 6. $\begin{array}{r} 129 \\ + 344 \\ \hline \end{array}$ | 7. $\begin{array}{r} 176 \\ + 619 \\ \hline \end{array}$ | 8. $\begin{array}{r} 693 \\ + 258 \\ \hline \end{array}$ | 9. $\begin{array}{r} 126 \\ + 639 \\ \hline \end{array}$ | 10. $\begin{array}{r} 5,856 \\ + 1,541 \\ \hline \end{array}$ |
| 11. $\begin{array}{r} 268 \\ + 231 \\ \hline \end{array}$ | 12. $\begin{array}{r} 375 \\ + 550 \\ \hline \end{array}$ | 13. $\begin{array}{r} 1,345 \\ + 2,175 \\ \hline \end{array}$ | 14. $\begin{array}{r} 536 \\ + 161 \\ \hline \end{array}$ | 15. $\begin{array}{r} 759 \\ + 122 \\ \hline \end{array}$ |

Using Math

The rodeo was in town for two days. The first day, 367 people came to see the show. The second day, 385 people were there. How many people saw the rodeo?

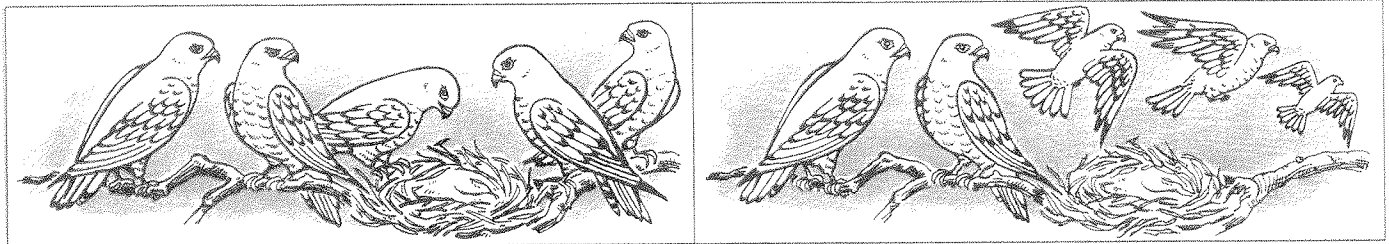


Work here.



Subtraction Facts Through 18

You subtract to find out how many are left.



How many hawks are left?

Subtract: 5 hawks $-$ 3 hawks = 2 hawks.

Write: $5 - 3 = 2$ or
$$\begin{array}{r} 5 \\ - 3 \\ \hline 2 \end{array}$$

The answer to a subtraction problem is called the **difference**.

2 is the difference.

Guided Practice

Subtract.

| | | | |
|---|---|---|--|
| 1. $\begin{array}{r} 7 \\ - 4 \\ \hline 3 \end{array}$ | 2. $\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$ | 3. $\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$ | 4. $\begin{array}{r} 10 \\ - 5 \\ \hline \end{array}$ |
| 5. $11 - 5 =$ | 6. $18 - 9 =$ | 7. $12 - 6 =$ | 8. $13 - 8 =$ |

Practice

➤ Subtract.

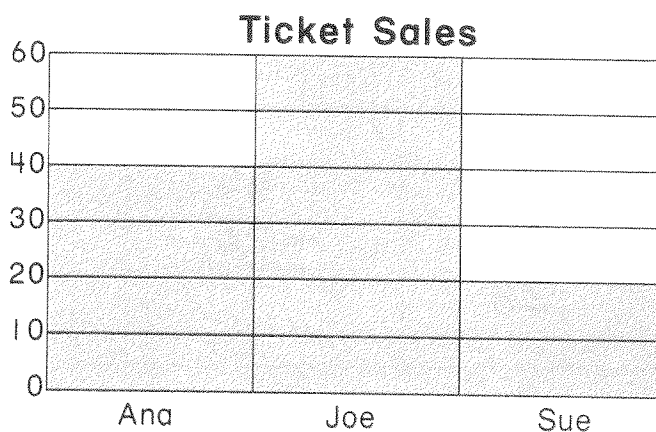
| | | | | |
|---|--|--|---|---|
| 1. $\begin{array}{r} 15 \\ - 9 \\ \hline \end{array}$ | 2. $\begin{array}{r} 9 \\ - 0 \\ \hline \end{array}$ | 3. $\begin{array}{r} 11 \\ - 5 \\ \hline \end{array}$ | 4. $\begin{array}{r} 10 \\ - 2 \\ \hline \end{array}$ | 5. $\begin{array}{r} 14 \\ - 9 \\ \hline \end{array}$ |
| 6. $\begin{array}{r} 9 \\ - 5 \\ \hline \end{array}$ | 7. $\begin{array}{r} 12 \\ - 7 \\ \hline \end{array}$ | 8. $\begin{array}{r} 15 \\ - 8 \\ \hline \end{array}$ | 9. $\begin{array}{r} 11 \\ - 9 \\ \hline \end{array}$ | 10. $\begin{array}{r} 16 \\ - 8 \\ \hline \end{array}$ |
| 11. $\begin{array}{r} 13 \\ - 7 \\ \hline \end{array}$ | 12. $\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$ | 13. $\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$ | 14. $\begin{array}{r} 14 \\ - 5 \\ \hline \end{array}$ | 15. $\begin{array}{r} 17 \\ - 9 \\ \hline \end{array}$ |
| 16. $18 - 9 =$ | 17. $16 - 9 =$ | 18. $17 - 8 =$ | 19. $12 - 4 =$ | |

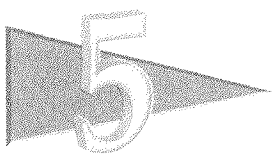
Problem Solving

➤ Who sold the most tickets?

_____ sold the most tickets.

Number
of Tickets





Subtracting 2-Digit Numbers

Step 1 Subtract the ones.

Step 2 Subtract the tens.

| tens | ones |
|------|------|
| 4 | 5 |
| 1 | 3 |
| 3 | 2 |

Sometimes you need to **regroup** when you subtract.

Step 1 Can you subtract the ones? No.

Regroup 4 tens 2 ones as
3 tens 12 ones.

Now subtract the ones.

Step 2 Subtract the tens.

| tens | ones |
|------------------------------|-------------------------------|
| ³ 4 | ¹² 2 |
| 1 | 5 |
| 2 | 7 |

Guided Practice

Subtract.

| | | | | |
|---|---|---|---|---|
| 1. $\begin{array}{r} 5\ 10 \\ 60 \\ - 32 \\ \hline 28 \end{array}$ | 2. $\begin{array}{r} 44 \\ - 26 \\ \hline \end{array}$ | 3. $\begin{array}{r} 46 \\ - 26 \\ \hline \end{array}$ | 4. $\begin{array}{r} 37 \\ - 18 \\ \hline \end{array}$ | 5. $\begin{array}{r} 24 \\ - 18 \\ \hline \end{array}$ |
|---|---|---|---|---|

Practice

Subtract.

| | | | | |
|--|--|--|--|--|
| 1. $\begin{array}{r} 15 \\ - 13 \\ \hline \end{array}$ | 2. $\begin{array}{r} 55 \\ - 22 \\ \hline \end{array}$ | 3. $\begin{array}{r} 60 \\ - 32 \\ \hline \end{array}$ | 4. $\begin{array}{r} 44 \\ - 26 \\ \hline \end{array}$ | 5. $\begin{array}{r} 97 \\ - 38 \\ \hline \end{array}$ |
| 6. $\begin{array}{r} 90 \\ - 73 \\ \hline \end{array}$ | 7. $\begin{array}{r} 84 \\ - 76 \\ \hline \end{array}$ | 8. $\begin{array}{r} 24 \\ - 18 \\ \hline \end{array}$ | 9. $\begin{array}{r} 52 \\ - 24 \\ \hline \end{array}$ | 10. $\begin{array}{r} 47 \\ - 16 \\ \hline \end{array}$ |
| 11. $\begin{array}{r} 21 \\ - 14 \\ \hline \end{array}$ | 12. $\begin{array}{r} 79 \\ - 58 \\ \hline \end{array}$ | 13. $\begin{array}{r} 57 \\ - 49 \\ \hline \end{array}$ | 14. $\begin{array}{r} 28 \\ - 19 \\ \hline \end{array}$ | 15. $\begin{array}{r} 55 \\ - 28 \\ \hline \end{array}$ |

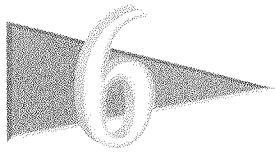
Using Math

Mr. Wilson had 54 cows in the pasture by the barn. He moved 28 of the cows to another pasture. How many cows were left in the pasture by the barn?

There were _____ cows left.



Work here.



Subtracting 3- and 4-Digit Numbers

Sometimes when you subtract large numbers, you regroup more than one time.

Step 1 Can you subtract the ones? No.

Regroup 4 tens 2 ones as
3 tens 12 ones.

Now subtract the ones.

Step 2 Can you subtract the tens? No.

Regroup 5 hundreds 3 tens as
4 hundreds 13 tens.

Now subtract the tens.

Step 3 Subtract the hundreds.

| hundreds | tens | ones |
|-------------------|--------------------|--------------------|
| 5 4 | 4 13 | 2 12 |
| 1 | 6 | 8 |
| 3 | 7 | 4 |

Guided Practice

Subtract.

| | | | |
|--|---|---|---|
| 1. $\begin{array}{r} 11 \\ 4 \times 13 \\ 523 \\ - 364 \\ \hline 159 \end{array}$ | 2. $\begin{array}{r} 346 \\ - 178 \\ \hline \end{array}$ | 3. $\begin{array}{r} 4,349 \\ - 1,678 \\ \hline \end{array}$ | 4. $\begin{array}{r} 864 \\ - 478 \\ \hline \end{array}$ |
| 5. $\begin{array}{r} 958 \\ - 646 \\ \hline \end{array}$ | 6. $\begin{array}{r} 1,564 \\ - 782 \\ \hline \end{array}$ | 7. $\begin{array}{r} 807 \\ - 756 \\ \hline \end{array}$ | 8. $\begin{array}{r} 687 \\ - 296 \\ \hline \end{array}$ |

Practice

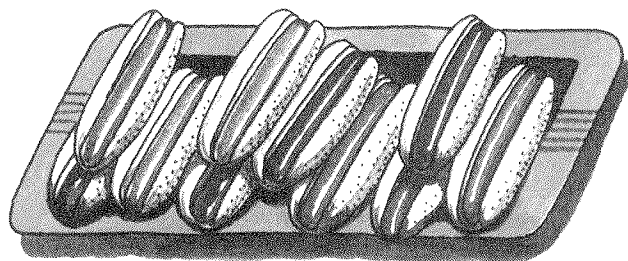
Subtract.

| | | | | |
|--|--|--|--|--|
| 1. $\begin{array}{r} 640 \\ - 126 \\ \hline \end{array}$ | 2. $\begin{array}{r} 502 \\ - 192 \\ \hline \end{array}$ | 3. $\begin{array}{r} 319 \\ - 121 \\ \hline \end{array}$ | 4. $\begin{array}{r} 930 \\ - 369 \\ \hline \end{array}$ | 5. $\begin{array}{r} 1,782 \\ - 891 \\ \hline \end{array}$ |
| 6. $\begin{array}{r} 790 \\ - 328 \\ \hline \end{array}$ | 7. $\begin{array}{r} 350 \\ - 174 \\ \hline \end{array}$ | 8. $\begin{array}{r} 596 \\ - 285 \\ \hline \end{array}$ | 9. $\begin{array}{r} 852 \\ - 485 \\ \hline \end{array}$ | 10. $\begin{array}{r} 2,154 \\ - 1,972 \\ \hline \end{array}$ |
| 11. $\begin{array}{r} 351 \\ - 181 \\ \hline \end{array}$ | 12. $\begin{array}{r} 457 \\ - 128 \\ \hline \end{array}$ | 13. $\begin{array}{r} 324 \\ - 175 \\ \hline \end{array}$ | 14. $\begin{array}{r} 344 \\ - 285 \\ \hline \end{array}$ | 15. $\begin{array}{r} 8,238 \\ - 2,573 \\ \hline \end{array}$ |

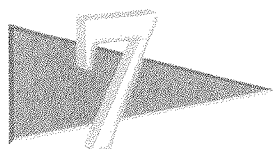
Using Math

Grover School had Cookout Day. The parents helped cook the food. They cooked 235 hot dogs. In one hour, 196 hot dogs were eaten. How many hot dogs were left?

There were _____ hot dogs left.



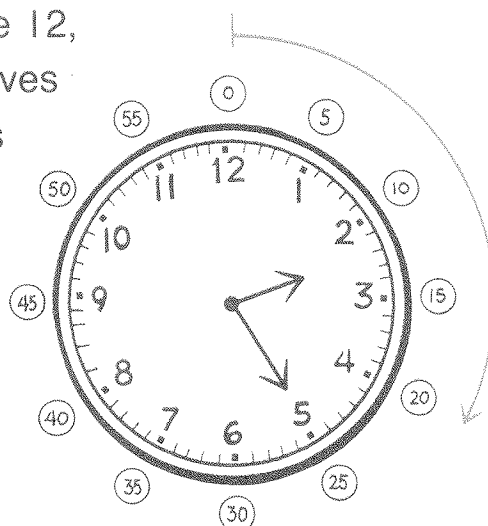
Work here.



Time After the Hour

When the minute hand points to the 12, it is the hour. As the minute hand moves around the clock, each minute mark is **after the hour**.

What time is it?



after the hour

Step 1 Look at the hour hand. It is between 2 and 3. The smaller number is the hour. The hour is 2.

Step 2 Look at the minute hand. Count by fives to the minute hand. It is 25 minutes **after the hour**.



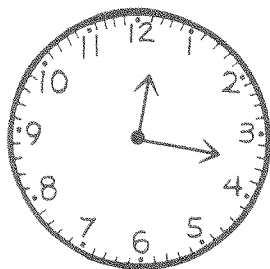
The time is 2:25.

You can also say 25 minutes after 2.

Guided Practice

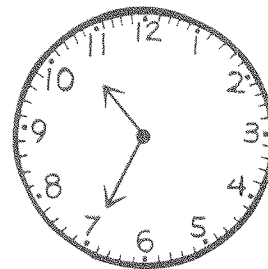
Write each time two ways.

1.



12:17 or 17 minutes after 12

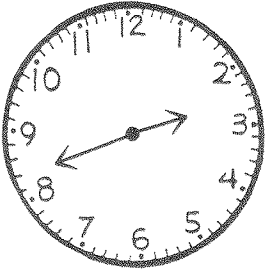
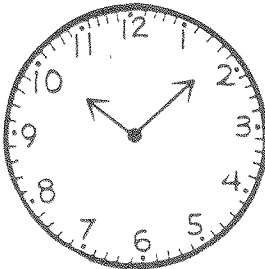
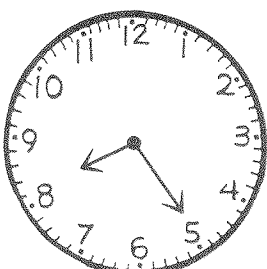
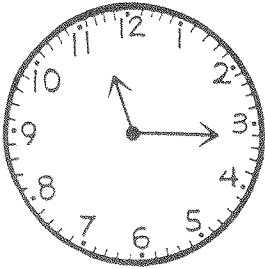
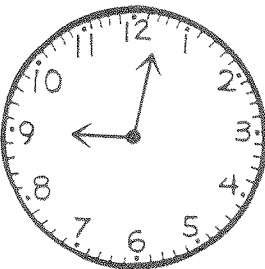
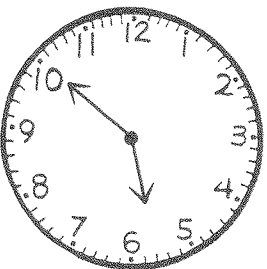
2.



_____ or _____ minutes after _____

Practice

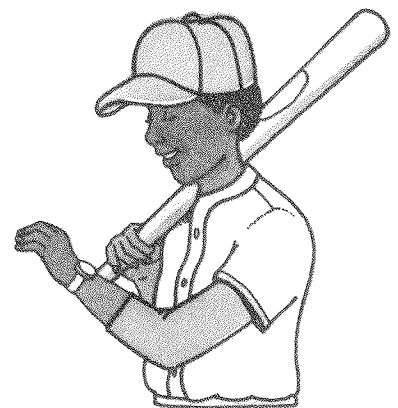
Write each time two ways.

| | | |
|--|--|--|
| <p>1.</p>  <p>_____ or _____ minutes after _____</p> | <p>2.</p>  <p>_____ or _____ minutes after _____</p> | <p>3.</p>  <p>_____ or _____ minutes after _____</p> |
| <p>4.</p>  <p>_____ or _____ minutes after _____</p> | <p>5.</p>  <p>_____ or _____ minutes after _____</p> | <p>6.</p>  <p>_____ or _____ minutes after _____</p> |

Using Math

The softball game begins at 20 minutes after 4. Rick arrived at the game at 4:25. Was Rick early or late for the game?

Ring your answer. early late










Problem Solving

Make a Bar Graph

Akimi Music Store made this table.
It shows how many instruments
are rented each year.

You can use facts from this table
to make a bar graph.

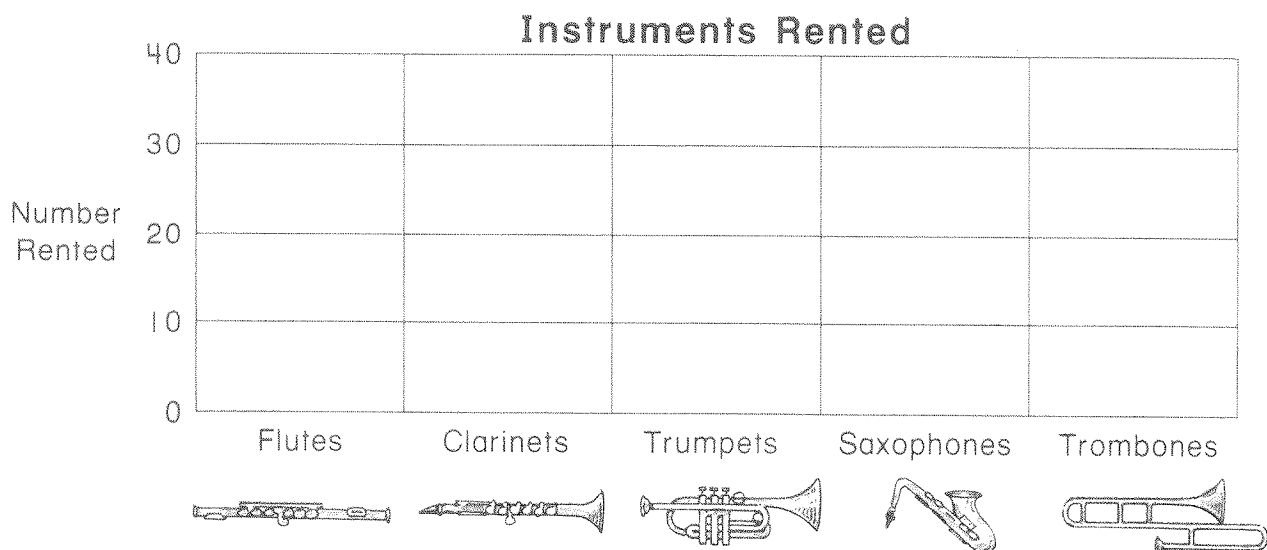
| Instruments Rented | | |
|--------------------|---|----|
| Flutes |  | 20 |
| Clarinets |  | 40 |
| Trumpets |  | 30 |
| Saxophones |  | 10 |
| Trombones |  | 10 |

Step 1 Find the number of flutes in the table.

20 Flutes

Step 2 Find **Flutes** on the graph below.

Step 3 Color the spaces above **Flutes** in the graph
up to the line marked 20.



Guided Practice

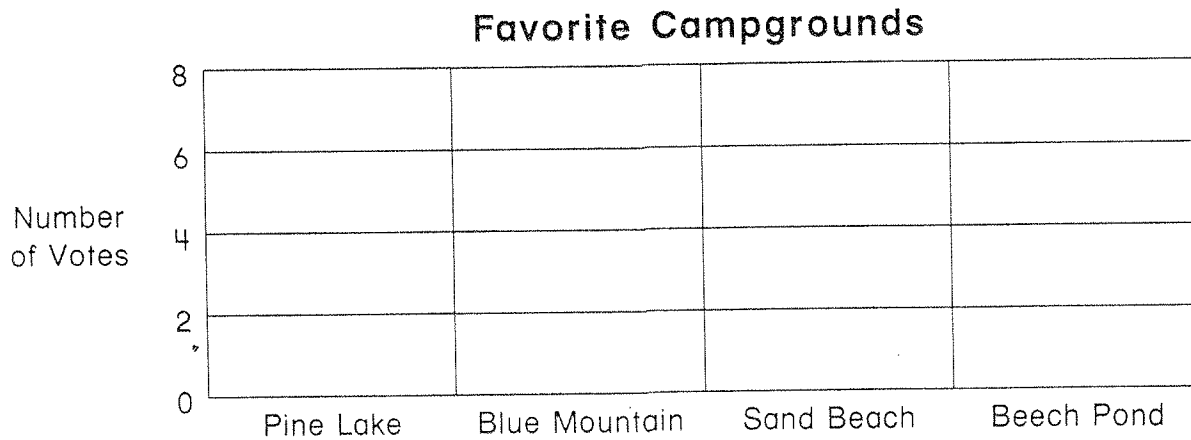
- Use the table at the top of this page.
Color the graph to show how many of each instrument.

Practice

Use each table to make a graph.

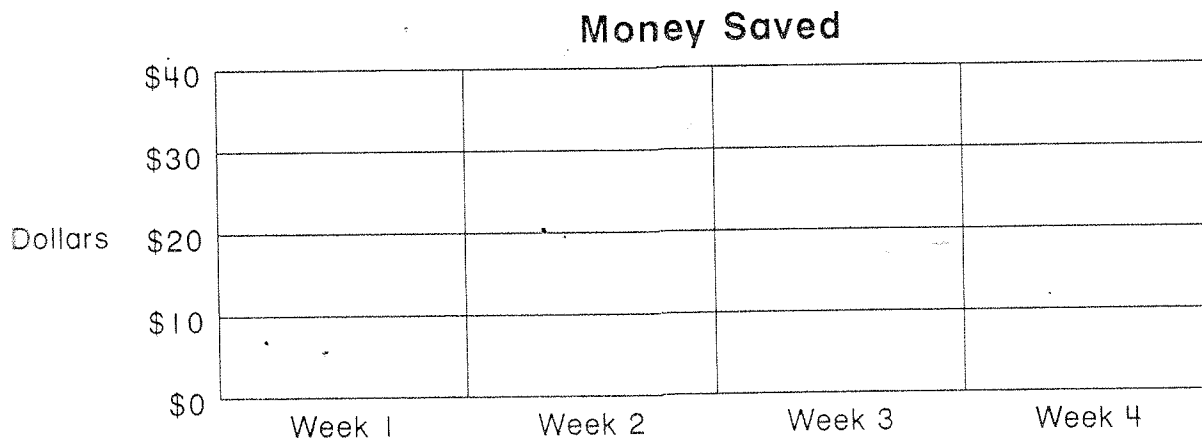
- The scout leaders asked the scouts to choose their favorite campground. This table shows their answers.

| Favorite Campgrounds | |
|----------------------|---|
| Pine Lake | 2 |
| Blue Mountain | 6 |
| Sand Beach | 4 |
| Beech Pond | 8 |



- The scout troop raised money for the camping trip. This table shows how much money the troop made each week.

| Money Saved | |
|-------------|------|
| Week 1 | \$10 |
| Week 2 | \$20 |
| Week 3 | \$40 |
| Week 4 | \$30 |



► Add.

| | | | |
|---|--|--|--|
| pages 24–25 1. $\begin{array}{r} 9 \\ + 4 \\ \hline \end{array}$ | 2. $\begin{array}{r} 8 \\ + 6 \\ \hline \end{array}$ | 3. $\begin{array}{r} 7 \\ + 9 \\ \hline \end{array}$ | 4. $\begin{array}{r} 5 \\ + 7 \\ \hline \end{array}$ |
| pages 26–27 5. $\begin{array}{r} 36 \\ + 24 \\ \hline \end{array}$ | 6. $\begin{array}{r} 24 \\ + 12 \\ \hline \end{array}$ | 7. $\begin{array}{r} 69 \\ + 27 \\ \hline \end{array}$ | 8. $\begin{array}{r} 46 \\ + 27 \\ \hline \end{array}$ |
| 9. $\begin{array}{r} 53 \\ + 29 \\ \hline \end{array}$ | 10. $\begin{array}{r} 76 \\ + 14 \\ \hline \end{array}$ | 11. $\begin{array}{r} 13 \\ + 48 \\ \hline \end{array}$ | 12. $\begin{array}{r} 28 \\ + 16 \\ \hline \end{array}$ |
| pages 28–29 13. $\begin{array}{r} 683 \\ + 298 \\ \hline \end{array}$ | 14. $\begin{array}{r} 549 \\ + 151 \\ \hline \end{array}$ | 15. $\begin{array}{r} 868 \\ + 456 \\ \hline \end{array}$ | 16. $\begin{array}{r} 1,963 \\ + 3,741 \\ \hline \end{array}$ |
| 17. $\begin{array}{r} 6,187 \\ + 840 \\ \hline \end{array}$ | 18. $\begin{array}{r} 419 \\ + 383 \\ \hline \end{array}$ | 19. $\begin{array}{r} 4,753 \\ + 465 \\ \hline \end{array}$ | 20. $\begin{array}{r} 246 \\ + 399 \\ \hline \end{array}$ |

► Subtract.

| | | | |
|--|---|---|---|
| pages 30–31 21. $\begin{array}{r} 12 \\ - 4 \\ \hline \end{array}$ | 22. $\begin{array}{r} 16 \\ - 7 \\ \hline \end{array}$ | 23. $\begin{array}{r} 11 \\ - 5 \\ \hline \end{array}$ | 24. $\begin{array}{r} 17 \\ - 9 \\ \hline \end{array}$ |
|--|---|---|---|

Subtract.

pages 32–33

25.

$$\begin{array}{r} 82 \\ - 60 \\ \hline \end{array}$$

26.

$$\begin{array}{r} 67 \\ - 24 \\ \hline \end{array}$$

27.

$$\begin{array}{r} 53 \\ - 37 \\ \hline \end{array}$$

28.

$$\begin{array}{r} 42 \\ - 17 \\ \hline \end{array}$$

29.

$$\begin{array}{r} 83 \\ - 46 \\ \hline \end{array}$$

30.

$$\begin{array}{r} 71 \\ - 23 \\ \hline \end{array}$$

31.

$$\begin{array}{r} 64 \\ - 25 \\ \hline \end{array}$$

32.

$$\begin{array}{r} 35 \\ - 17 \\ \hline \end{array}$$

pages 34–35

33.

$$\begin{array}{r} 450 \\ - 174 \\ \hline \end{array}$$

34.

$$\begin{array}{r} 642 \\ - 386 \\ \hline \end{array}$$

35.

$$\begin{array}{r} 1,673 \\ - 891 \\ \hline \end{array}$$

36.

$$\begin{array}{r} 5,226 \\ - 1,862 \\ \hline \end{array}$$

37.

$$\begin{array}{r} 5,258 \\ - 1,687 \\ \hline \end{array}$$

38.

$$\begin{array}{r} 652 \\ - 293 \\ \hline \end{array}$$

39.

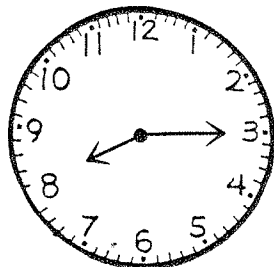
$$\begin{array}{r} 2,452 \\ - 672 \\ \hline \end{array}$$

40.

$$\begin{array}{r} 944 \\ - 275 \\ \hline \end{array}$$

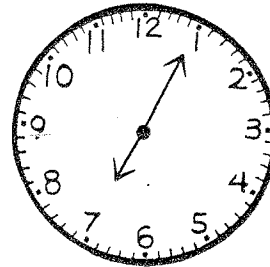
Write each time two ways. pages 36–37

41.



_____ or _____ minutes after _____

42.



_____ or _____ minutes after _____

CHAPTER **2** Review

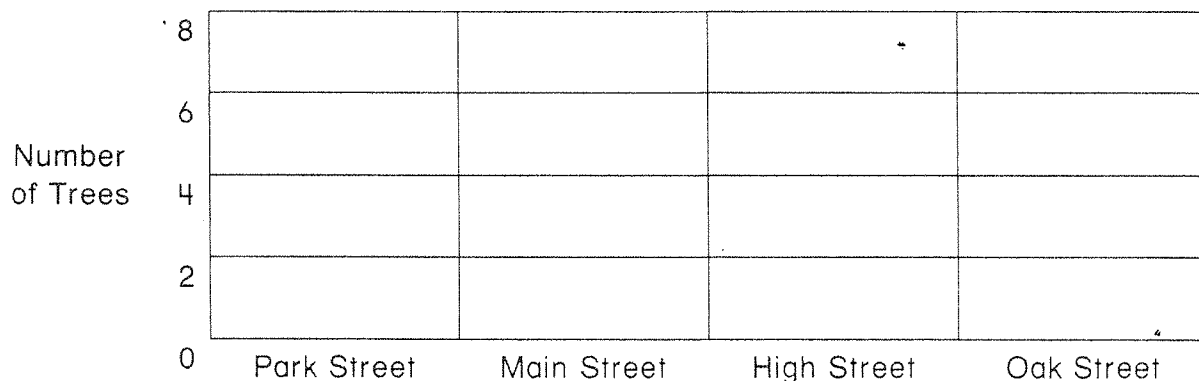
Use each table to make a graph.
pages 38–39

43. Students in Science Class A planted trees in their town. The table shows how many trees they planted on each street.

Trees Planted by Class A

| | |
|-------------|---|
| Park Street | 8 |
| Main Street | 6 |
| High Street | 2 |
| Oak Street | 4 |

Trees Planted

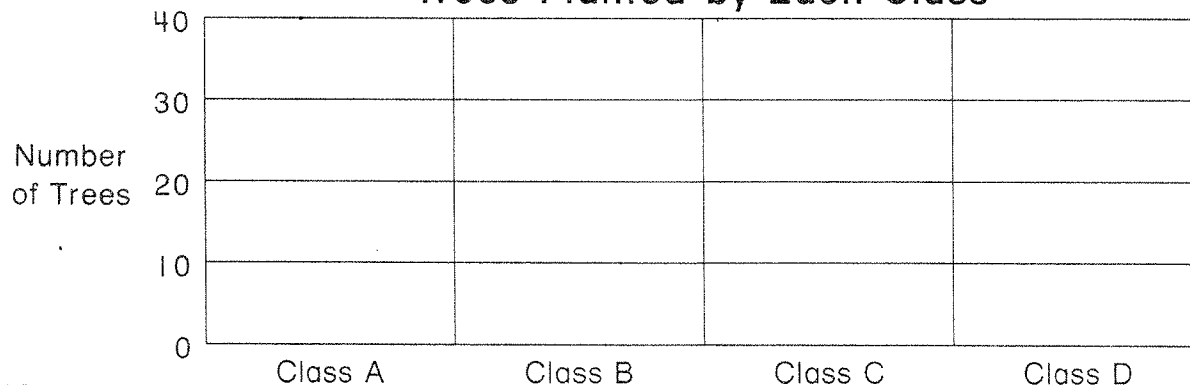


44. This table shows the number of trees planted by each class.

Trees Planted by Each Class

| | |
|---------|----------|
| Class A | 20 trees |
| Class B | 30 trees |
| Class C | 10 trees |
| Class D | 40 trees |

Trees Planted by Each Class



CHAPTER 2 Test

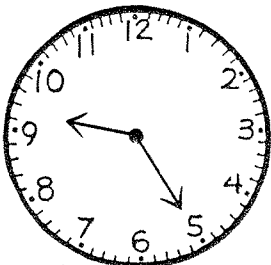
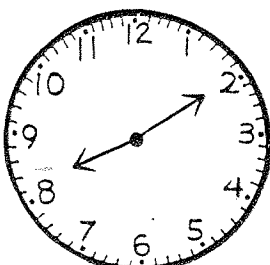
➤ Add.

| | | | |
|---|---|---|---|
| 1. $\begin{array}{r} 8 \\ + 8 \\ \hline \end{array}$ | 2. $\begin{array}{r} 9 \\ + 6 \\ \hline \end{array}$ | 3. $\begin{array}{r} 62 \\ + 23 \\ \hline \end{array}$ | 4. $\begin{array}{r} 35 \\ + 48 \\ \hline \end{array}$ |
| 5. $\begin{array}{r} 57 \\ + 37 \\ \hline \end{array}$ | 6. $\begin{array}{r} 496 \\ + 326 \\ \hline \end{array}$ | 7. $\begin{array}{r} 351 \\ + 589 \\ \hline \end{array}$ | 8. $\begin{array}{r} 3,692 \\ + 2,842 \\ \hline \end{array}$ |

➤ Subtract.

| | | | |
|--|--|--|--|
| 9. $\begin{array}{r} 14 \\ - 7 \\ \hline \end{array}$ | 10. $\begin{array}{r} 18 \\ - 9 \\ \hline \end{array}$ | 11. $\begin{array}{r} 58 \\ - 14 \\ \hline \end{array}$ | 12. $\begin{array}{r} 95 \\ - 67 \\ \hline \end{array}$ |
| 13. $\begin{array}{r} 72 \\ - 53 \\ \hline \end{array}$ | 14. $\begin{array}{r} 343 \\ - 196 \\ \hline \end{array}$ | 15. $\begin{array}{r} 925 \\ - 878 \\ \hline \end{array}$ | 16. $\begin{array}{r} 1,519 \\ - 691 \\ \hline \end{array}$ |

➤ Write each time two ways.

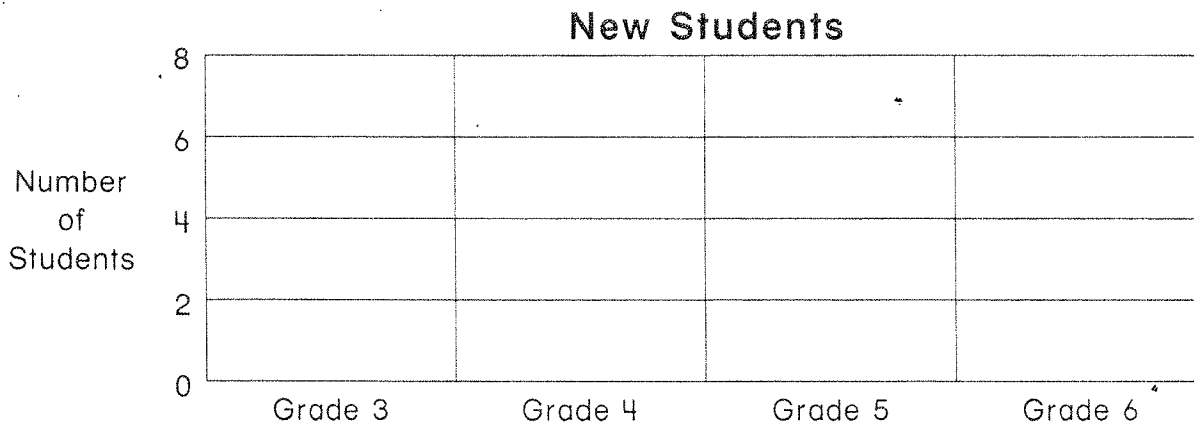
| | |
|--|--|
| 17.  _____ or _____ minutes after _____ | 18.  _____ or _____ minutes after _____ |
|--|--|

CHAPTER **2** Test

Use each table to make a graph.

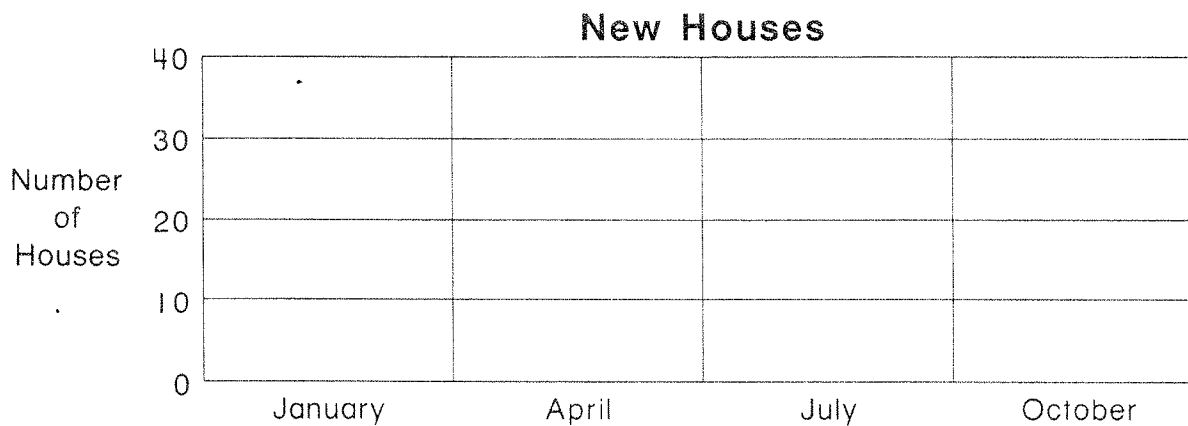
19. The table shows the number of new students in each grade at Smithville School this month.

| New Students | |
|--------------|---|
| Grade 3 | 4 |
| Grade 4 | 6 |
| Grade 5 | 8 |
| Grade 6 | 2 |



20. The table shows the number of new houses built each month in Smithville.

| New Houses | |
|------------|----|
| January | 10 |
| April | 40 |
| July | 30 |
| October | 20 |

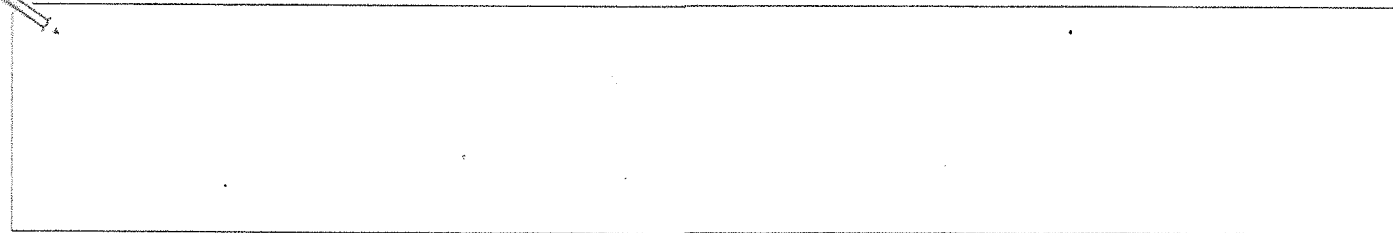


3

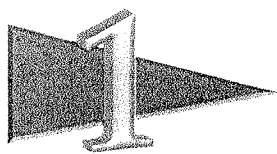
Multiplication Facts
Through 9

Kamal saw 7 hot air balloons that were taking off for a race. There were 2 people in each balloon basket. How many people in all were in the hot air balloon baskets?

Solve.

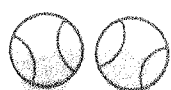


Write a problem about a different kind of race.



Multiplying by 0, 1, and 2

You can add to find how many in all. When the groups are equal, you can also **multiply** to find how many in all.



$$1 + 1 = 2$$

$$\begin{array}{r} 2 \\ \times 1 \\ \hline 2 \end{array}$$

$$1 \times 2 = 2$$



$$1 + 1 + 1 = 3$$

$$\begin{array}{r} 3 \\ \times 1 \\ \hline 3 \end{array}$$

$$1 \times 3 = 3$$

$1 \times \text{any number} = \text{that number}$

$$0 + 0 = 0$$

$$\begin{array}{r} 2 \\ \times 0 \\ \hline 0 \end{array}$$

$$0 \times 2 = 0$$

$$0 + 0 + 0 = 0$$

$$\begin{array}{r} 3 \\ \times 0 \\ \hline 0 \end{array}$$

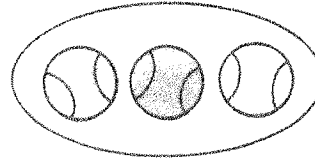
$$0 \times 3 = 0$$

$0 \times \text{any number} = 0$

$$3 + 3 = 6$$

$$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$$

$$2 \times 3 = 6$$

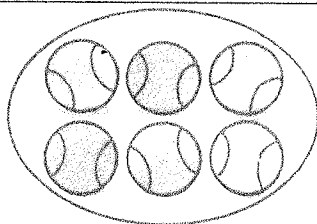


Guided Practice

➤ Multiply.

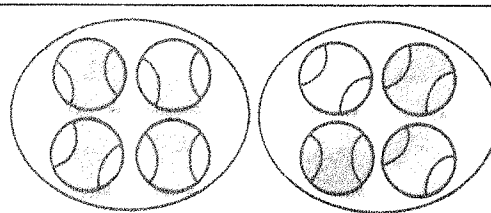
1.

$$\begin{array}{r} 6 \\ \times 1 \\ \hline 6 \end{array}$$



2.

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$$



3.

$$1 \times 5 =$$

4.

$$2 \times 2 =$$

5.

$$0 \times 5 =$$

Practice

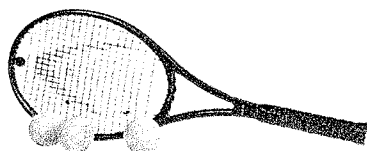
► Multiply.

| | | | | |
|---|---|---|---|---|
| 1. $\begin{array}{r} 8 \\ \times 0 \\ \hline \end{array}$ | 2. $\begin{array}{r} 9 \\ \times 1 \\ \hline \end{array}$ | 3. $\begin{array}{r} 7 \\ \times 0 \\ \hline \end{array}$ | 4. $\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$ | 5. $\begin{array}{r} 9 \\ \times 0 \\ \hline \end{array}$ |
| 6. $\begin{array}{r} 1 \\ \times 1 \\ \hline \end{array}$ | 7. $\begin{array}{r} 2 \\ \times 0 \\ \hline \end{array}$ | 8. $\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array}$ | 9. $\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$ | 10. $\begin{array}{r} 8 \\ \times 1 \\ \hline \end{array}$ |
| 11. $\begin{array}{r} 6 \\ \times 0 \\ \hline \end{array}$ | 12. $\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$ | 13. $\begin{array}{r} 7 \\ \times 1 \\ \hline \end{array}$ | 14. $\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$ | 15. $\begin{array}{r} 1 \\ \times 2 \\ \hline \end{array}$ |
| 16. $2 \times 1 =$ | 17. $0 \times 6 =$ | 18. $1 \times 3 =$ | 19. $2 \times 7 =$ | |

Using Math

- There are 2 tennis courts in the park. 4 players are on each court. How many players are there in all?

There are _____ players in all.



Work here.



Multiplying by 3 and 4

Add to find the number of dots. Then multiply.



Add. $2 + 2 + 2 = 6$

Multiply. $3 \times 2 = 6$ or $\begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$

factors product



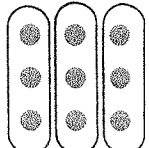
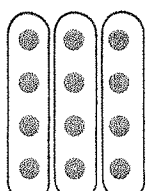
Add. $2 + 2 + 2 + 2 = 8$

Multiply. $4 \times 2 = 8$ or $\begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array}$

The numbers we multiply are called **factors**. 4 and 2 are factors.
The answer is called the **product**. 8 is the product.

Guided Practice

> Multiply.

| | | |
|--|--|-------------------------------------|
| <p>1.</p> $\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$  | <p>2.</p> $\begin{array}{r} 4 \\ \times 3 \\ \hline \end{array}$  | |
| <p>3. $3 \times 8 =$</p> | <p>4. $4 \times 5 =$</p> | <p>5. $4 \times 4 =$</p> |

Practice

Multiply.

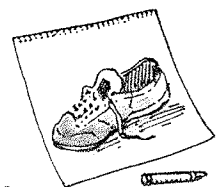
| | | | | |
|---|---|---|---|---|
| 1. $\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$ | 2. $\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$ | 3. $\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$ | 4. $\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$ | 5. $\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$ |
| 6. $\begin{array}{r} 1 \\ \times 4 \\ \hline \end{array}$ | 7. $\begin{array}{r} 0 \\ \times 3 \\ \hline \end{array}$ | 8. $\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$ | 9. $\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$ | 10. $\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$ |
| 11. $\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$ | 12. $\begin{array}{r} 2 \\ \times 4 \\ \hline \end{array}$ | 13. $\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$ | 14. $\begin{array}{r} 2 \\ \times 3 \\ \hline \end{array}$ | 15. $\begin{array}{r} 0 \\ \times 4 \\ \hline \end{array}$ |
| 16. $4 \times 9 =$ | 17. $3 \times 9 =$ | 18. $4 \times 0 =$ | 19. $3 \times 1 =$ | |

Problem Solving

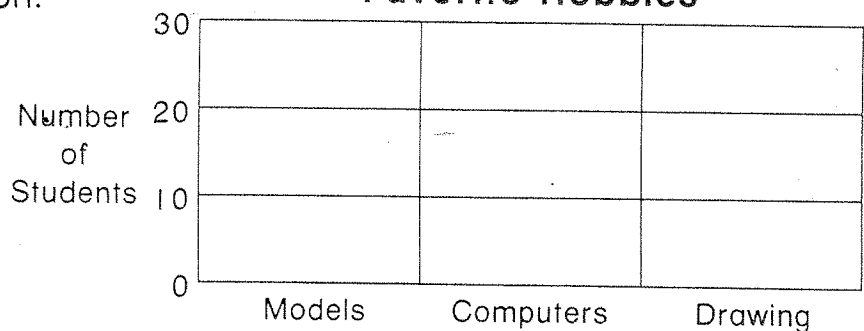
This table shows the favorite hobbies of sixty students.

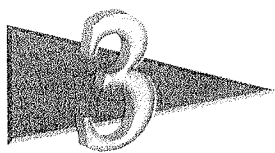
Use the table to make the graph.

| Favorite Hobbies | |
|------------------|----|
| Models | 20 |
| Computers | 30 |
| Drawing | 10 |



Favorite Hobbies





Multiplying by 5 and 6

You can memorize the multiplication facts for 5 and 6 by studying the **multiplication tables**.

Multiplying by 5

| | | | | | | | | | | | |
|---|---|---|---|----|----|----|----|----|----|----|----|
| | | | | | | | | | | | |
| | × | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| ↑ | 5 | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 |

$$5 \times 6 = 30$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$$

Multiplying by 6

| | | | | | | | | | | | |
|---|---|---|---|----|----|----|----|----|----|----|----|
| | | | | | | | | | | | |
| | × | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| ↑ | 6 | 0 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 |

$$6 \times 5 = 30$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$$

The order of the factors does not change the product.

$$5 \times 6 = 30 \quad \text{and} \quad 6 \times 5 = 30$$

Guided Practice

➤ Multiply.

| | | | |
|---|--|--|--|
| 1. $\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$ | 2. $\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$ | 3. $\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$ | 4. $\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$ |
| 5. $5 \times 3 =$ | 6. $6 \times 2 =$ | 7. $6 \times 8 =$ | 8. $5 \times 6 =$ |

Practice

Example

| | | | | |
|--|--|--|--|--|
| $\begin{array}{r} 4 \\ \times 5 \\ \hline \end{array}$ | 2. $\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$ | 3. $\begin{array}{r} 0 \\ \times 6 \\ \hline \end{array}$ | 4. $\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$ | 5. $\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$ |
| $\begin{array}{r} 1 \\ \times 5 \\ \hline \end{array}$ | 7. $\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$ | 8. $\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$ | 9. $\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$ | 10. $\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$ |
| $\begin{array}{r} 5 \\ \times 0 \\ \hline \end{array}$ | 12. $\begin{array}{r} 6 \\ \times 0 \\ \hline \end{array}$ | 13. $\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$ | 14. $\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$ | 15. $\begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$ |
| $4 \times 6 =$ | 17. $5 \times 5 =$ | 18. $9 \times 5 =$ | 19. $3 \times 6 =$ | |

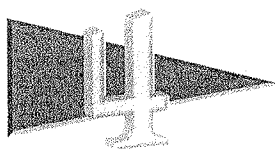
Using Math

Tom works in a supermarket. He put 5 boxes of juice on a shelf. Each box has 6 bottles. How many bottles did Tom put on the shelf?

Tom put _____ bottles on the shelf.



Work here.



Multiplying by 7

Study the multiplication table for 7 and memorize the facts.

| | | | | | | | | | | | |
|---|---|---|---|----|----|----|----|----|----|----|----|
| multiplication table for the integers modulo 11 | | | | | | | | | | | |
| | → | | | | | | | | | | |
| ↑ | × | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | 7 | 0 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 |

How many dots are there?



$$7 \times 3 = 21 \quad \text{or} \quad \begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array}$$



$$3 \times 7 = 21 \quad \text{or} \quad \begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array}$$



Remember that the order of the factors does not change the product.

$$7 \times 3 = 21$$

$$3 \times 7 = 21$$

Guided Practice

Multiply.

| | | | |
|---|--|--|--|
| 1. $\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$ | 2. $\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$ | 3. $\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$ | 4. $\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$ |
| 5. $7 \times 0 =$ | 6. $0 \times 7 =$ | 7. $2 \times 7 =$ | 8. $7 \times 8 =$ |

Practice

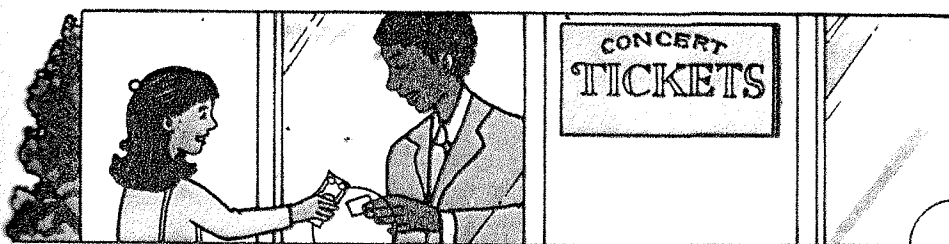
Multiply.

| | | | | |
|---|---|---|---|---|
| 1. $\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$ | 2. $\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$ | 3. $\begin{array}{r} 1 \\ \times 7 \\ \hline \end{array}$ | 4. $\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array}$ | 5. $\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$ |
| 6. $\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$ | 7. $\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$ | 8. $\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$ | 9. $\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$ | 10. $\begin{array}{r} 7 \\ \times 1 \\ \hline \end{array}$ |
| 11. $\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$ | 12. $\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$ | 13. $\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$ | 14. $\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$ | 15. $\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$ |
| 16. $7 \times 5 =$ | 17. $7 \times 8 =$ | 18. $7 \times 4 =$ | 19. $7 \times 2 =$ | |

Using Math

Rosa went to buy concert tickets. She waited in line. There were 7 lines. Each line had 6 people. How many people were in line?

There were _____ people in line.



Work here.



| | | | | | | | | | | |
|----------|---|---|----|----|----|----|----|----|----|----|
| \times | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 8 | 0 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 |

Figure 1 displays eight isometric views of a rectangular block with two circular holes. The views are arranged in two rows of four. Each view shows a different orientation of the block, highlighting various faces and the relative positions of the two holes. The holes are consistently positioned on the front face of the block in each view, with their relative positions changing as the block's orientation changes.

香 香 香 香
 香 香 香 香

香 香 香 香
 香 香 香 香

$$2 \times 8 = 16$$

Guided Practice

➤ Multiply.

54

Practice

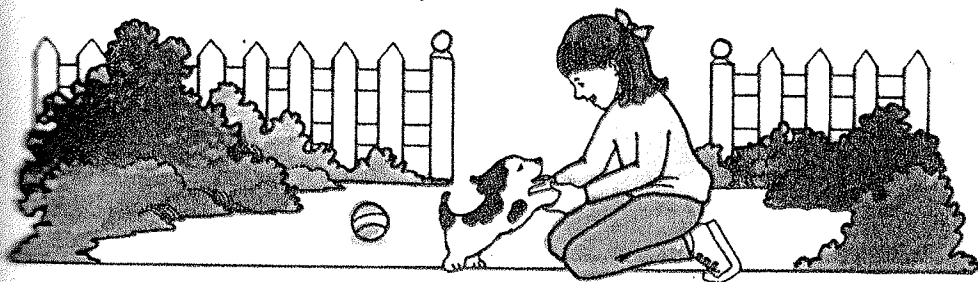
Multiply.

| | | | | |
|---|---|---|---|---|
| 1. $\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$ | 2. $\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$ | 3. $\begin{array}{r} 8 \\ \times 1 \\ \hline \end{array}$ | 4. $\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$ | 5. $\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$ |
| 6. $\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$ | 7. $\begin{array}{r} 8 \\ \times 6 \\ \hline \end{array}$ | 8. $\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$ | 9. $\begin{array}{r} 1 \\ \times 8 \\ \hline \end{array}$ | 10. $\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$ |
| 11. $\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$ | 12. $\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$ | 13. $\begin{array}{r} 5 \\ \times 8 \\ \hline \end{array}$ | 14. $\begin{array}{r} 4 \\ \times 3 \\ \hline \end{array}$ | 15. $\begin{array}{r} 8 \\ \times 6 \\ \hline \end{array}$ |
| 16. $8 \times 7 =$ | 17. $8 \times 2 =$ | 18. $8 \times 9 =$ | 19. $8 \times 3 =$ | |

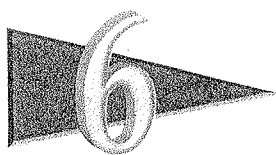
Using Math

Kelly has a new puppy. The puppy is 8 weeks old. How many days old is the puppy? (There are 7 days in a week.)

The puppy is _____ days old.



Work here.



Multiplication Table 0-9

This multiplication table shows all the facts through 9. It can help you find the product of two factors.

| × | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|----|----|----|----|----|----|----|----|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 2 | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| 3 | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 |
| 4 | 0 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 |
| 5 | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 6 | 0 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 |
| 7 | 0 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 |
| 8 | 0 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 |
| 9 | 0 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 |

This is how you use the table to find the product of 9×9 .

Step 1 Find the first factor in the column under the \times .

Step 2 Move to the right until you are under the second factor.

Step 3 Read the product: 81.

Guided Practice

Find each product using the multiplication table above.

| | | | |
|-------------------------|----------------------|----------------------|----------------------|
| 1. $8 \times 8 = 64$ | 2. $6 \times 6 =$ | 3. $4 \times 9 =$ | 4. $2 \times 6 =$ |
| 5. $7 \times 7 =$ | 6. $9 \times 8 =$ | 7. $8 \times 5 =$ | 8. $3 \times 5 =$ |

Practice

Multiply. You may use the multiplication table.

$$\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$$

2.

$$\begin{array}{r} 8 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$$

3.

$$\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$$

5.

$$\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$$

6.

$$\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$$

7.

$$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$$

8.

$$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline \end{array}$$

9.

$$\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$$

10.

$$6 \times 2 =$$

$$2 \times 6 =$$

11.

$$7 \times 8 =$$

$$8 \times 7 =$$

12.

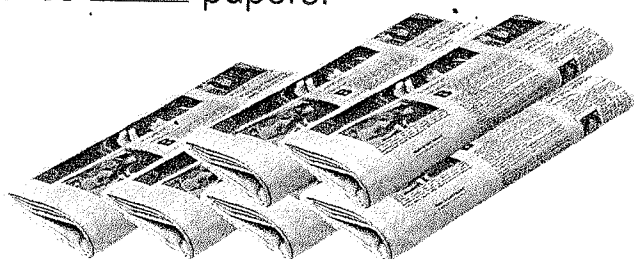
$$9 \times 6 =$$

$$6 \times 9 =$$

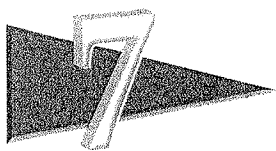
Using Math

Tony has a paper route. He has 9 apartment houses on his route. He leaves 6 papers in each apartment house. How many papers does he leave in all?

He leaves _____ papers.



Work here.

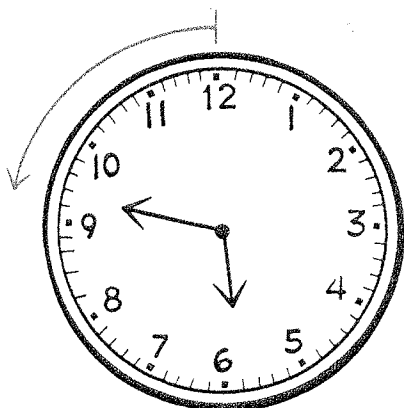


Time Before the Hour

You can say the time is 5:47 or 47 minutes after 5. You can also read this time by counting the minute marks before or **to the hour**.

What time is it?

to the hour



Step 1 Look at the minute hand. Start at the 12. Count by fives to the number just before the minute hand (5-10). Then count by ones (10-11-12-13).

Step 2 Look at the hour hand. It is between 5 and 6. When you count **to the hour**, the larger number is the hour. The hour is 6.

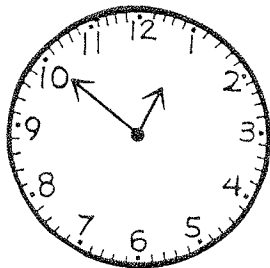


The time is 13 minutes to 6.

Guided Practice

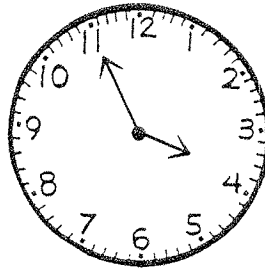
Write each time two ways.

1.



12:50 or 10 minutes to 1

2.

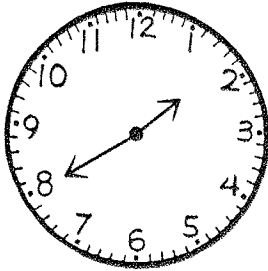


_____ or _____ minutes to _____

Practice

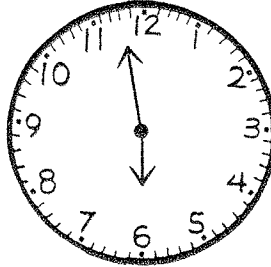
Write each time two ways.

1.



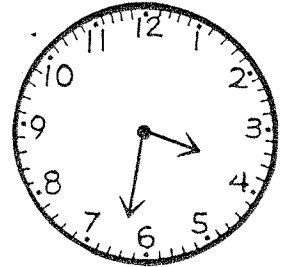
_____ or
_____ minutes to _____

2.



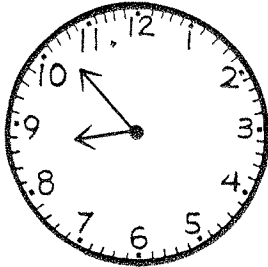
_____ or
_____ minutes to _____

3.



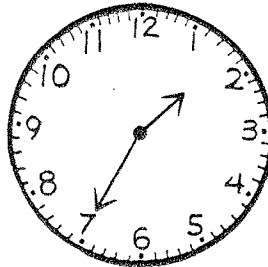
_____ or
_____ minutes to _____

4.



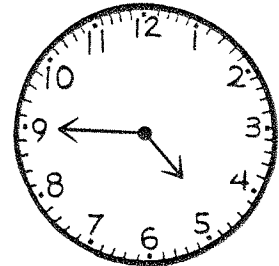
_____ or
_____ minutes to _____

5.



_____ or
_____ minutes to _____

6.



_____ or
_____ minutes to _____

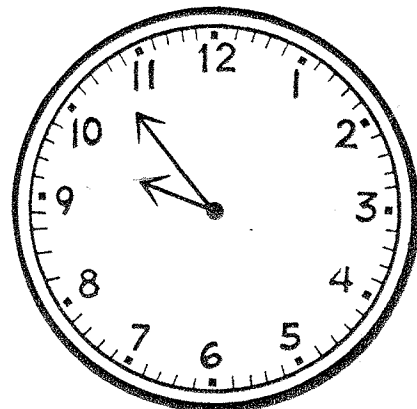
Using Math

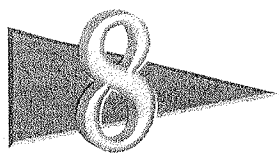
The train from Concord will arrive at 10:00.
Read the clock at the train station.

Write the time. _____

How many minutes are there before

the train arrives? _____ minutes





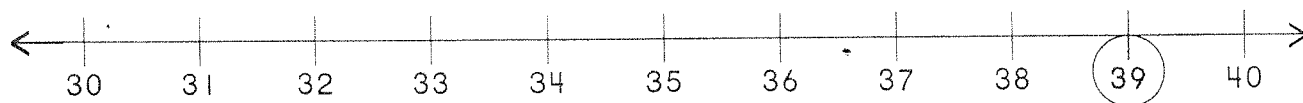
Problem Solving

Estimation

Jorge threw a ball 39 feet.

He wanted to know if that is nearer to 30 or 40 feet.

Step 1 Draw a number line that shows the nearest ten below and above 39.



Step 2 Look at 39 on the number line.

Is it nearer to 30 or 40?

It is nearer to 40.

Jorge threw the ball **about** 40 feet.

The word *about* means an exact answer is not needed.
You can estimate the answer.

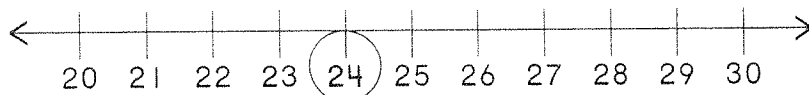
Guided Practice

Round to the nearest ten.

1. Megan threw a ball 24 feet.

Is that nearer to 20 or 30?

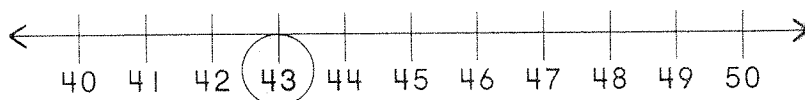
It is nearer to 20.



2. Chi kicked a football 43 feet.

Is that nearer to 40 or 50?

It is nearer to _____.

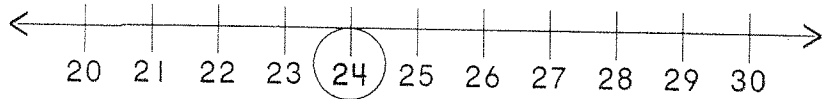


Practice

Round to the nearest ten.

1. Ana has 24 shells.

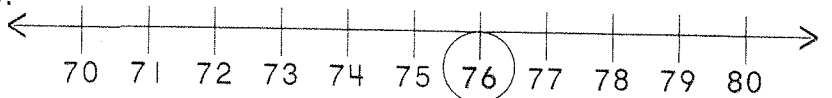
Is that nearer to 20 or 30?



It is nearer to ____.

2. Island School has 76 students.

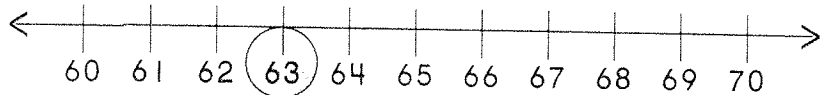
Is that nearer to 70 or 80?



It is nearer to ____.

3. Tom sold 63 tickets.

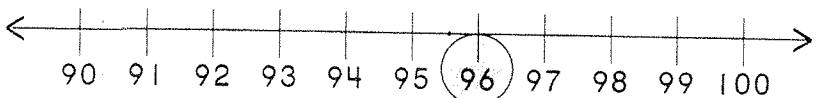
Is that nearer to 60 or 70?



It is nearer to ____.

4. Mario drove 96 miles.

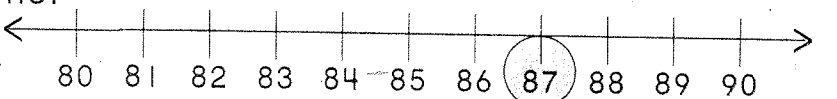
Is that nearer to 90 or 100?



It is nearer to ____.

5. There are 87 people at the game.

Is that nearer to 80 or 90?



It is nearer to ____.

CHAPTER 3 Review

Multiply.

| | | | |
|--|---|---|---|
| <p>pages 46–47</p> <p>1.</p> $\begin{array}{r} 6 \\ \times 0 \\ \hline \end{array}$ | <p>2.</p> $\begin{array}{r} 8 \\ \times 1 \\ \hline \end{array}$ | <p>3.</p> $\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$ | <p>4.</p> $\begin{array}{r} 2 \\ \times 1 \\ \hline \end{array}$ |
| <p>pages 48–49</p> <p>5.</p> $\begin{array}{r} 4 \\ \times 3 \\ \hline \end{array}$ | <p>6.</p> $\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$ | <p>7.</p> $\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$ | <p>8.</p> $\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$ |
| <p>pages 50–51</p> <p>9.</p> $\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$ | <p>10.</p> $\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$ | <p>11.</p> $\begin{array}{r} 3 \\ \times 5 \\ \hline \end{array}$ | <p>12.</p> $\begin{array}{r} 8 \\ \times 6 \\ \hline \end{array}$ |
| <p>13.</p> $\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$ | <p>14.</p> $\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$ | <p>15.</p> $\begin{array}{r} 4 \\ \times 5 \\ \hline \end{array}$ | <p>16.</p> $\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$ |
| <p>pages 52–53</p> <p>17.</p> $\begin{array}{r} 2 \\ \times 7 \\ \hline \end{array}$ | <p>18.</p> $\begin{array}{r} 0 \\ \times 7 \\ \hline \end{array}$ | <p>19.</p> $\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$ | <p>20.</p> $\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$ |
| <p>21.</p> $\begin{array}{r} 1 \\ \times 7 \\ \hline \end{array}$ | <p>22.</p> $\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array}$ | <p>23.</p> $\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array}$ | <p>24.</p> $\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$ |

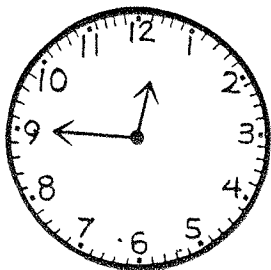
CHAPTER 3 Review

Multiply.

| | | | |
|---|--|--|--|
| pages 54–55 25. $\begin{array}{r} 2 \\ \times 8 \\ \hline \end{array}$ | 26. $\begin{array}{r} 5 \\ \times 8 \\ \hline \end{array}$ | 27. $\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$ | 28. $\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$ |
| 29. $\begin{array}{r} 3 \\ \times 8 \\ \hline \end{array}$ | 30. $\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$ | 31. $\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$ | 32. $\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$ |
| pages 56–57 33. $\begin{array}{r} 0 \\ \times 9 \\ \hline \end{array}$ | 34. $\begin{array}{r} 6 \\ \times 9 \\ \hline \end{array}$ | 35. $\begin{array}{r} 9 \\ \times 9 \\ \hline \end{array}$ | 36. $\begin{array}{r} 3 \\ \times 9 \\ \hline \end{array}$ |
| 37. $\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$ | 38. $\begin{array}{r} 1 \\ \times 9 \\ \hline \end{array}$ | 39. $\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$ | 40. $\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$ |

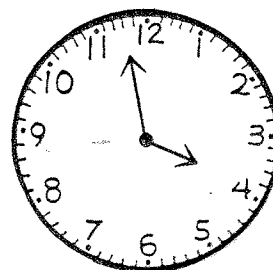
Write each time two ways. pages 58–59

41.



_____ or _____ minutes to _____

42.



_____ or _____ minutes to _____

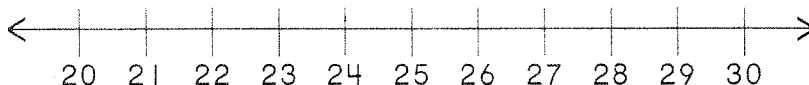
CHAPTER 3 Review

Round to the nearest ten.

pages 60–61

43. Alvin has 27 doughnuts.

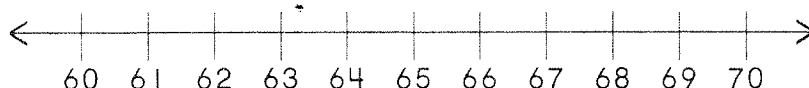
Is that nearer to 20 or 30?



It is nearer to ____.

44. Pam kicked a ball 64 feet.

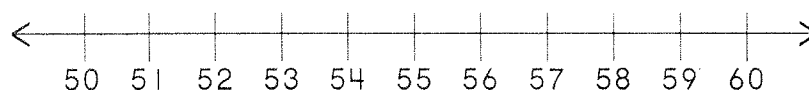
Is that nearer to 60 or 70?



It is nearer to ____.

45. Charlie has 59 baseball cards.

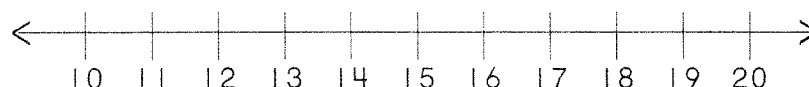
Is that nearer to 50 or 60?



It is nearer to ____.

46. Chi painted 12 pictures.

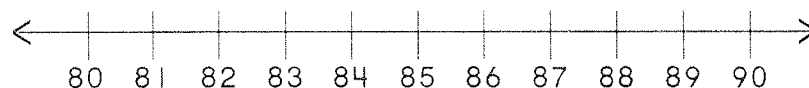
Is that nearer to 10 or 20?



It is nearer to ____.

47. Anne drove her car 86 miles.

Is that nearer to 80 or 90?



It is nearer to ____.

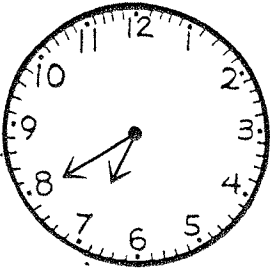
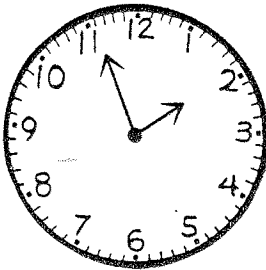
CHAPTER 3

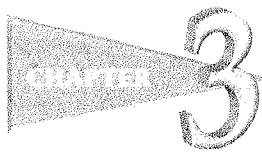
Test

Multiply.

| | | | |
|---|---|---|---|
| 1. $\begin{array}{r} 7 \\ \times 0 \\ \hline \end{array}$ | 2. $\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$ | 3. $\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$ | 4. $\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$ |
| 5. $\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$ | 6. $\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$ | 7. $\begin{array}{r} 1 \\ \times 6 \\ \hline \end{array}$ | 8. $\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$ |
| 9. $\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$ | 10. $\begin{array}{r} 3 \\ \times 9 \\ \hline \end{array}$ | 11. $\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$ | 12. $\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$ |
| 13. $\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$ | 14. $\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$ | 15. $\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$ | 16. $\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$ |

Write each time two ways.

| | |
|---|---|
| 17.  _____ or _____ minutes to _____ | 18.  _____ or _____ minutes to _____ |
|---|---|

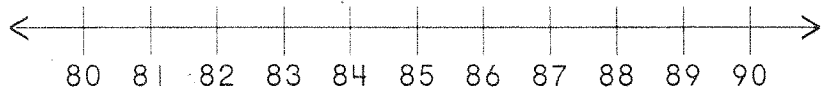


Test

Round to the nearest ten.

19. 87 people watched a ball game.

Is that nearer to 80 or 90?



It is nearer to _____.

20. Paula sold 42 drinks at the game.

Is that nearer to 40 or 50?



It is nearer to _____.

21. Amy hit a baseball 74 feet.

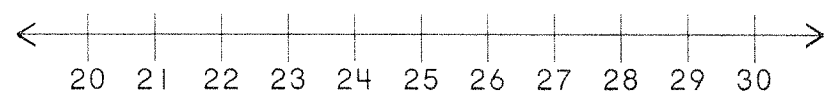
Is that nearer to 70 or 80?



It is nearer to _____.

22. 24 people bought team pennants.

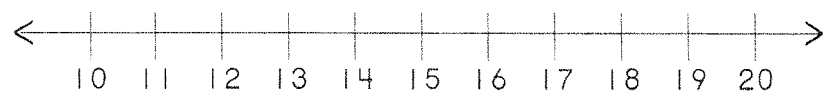
Is that nearer to 20 or 30?



It is nearer to _____.

23. Casey ran 18 feet to catch a ball.

Is that nearer to 10 or 20?



It is nearer to _____.

Write each missing number. pages 2–3

1. $65 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

2. $46 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

3. $79 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

4. $33 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

5. $628 = \underline{\hspace{1cm}}$ hundreds $\underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

6. $555 = \underline{\hspace{1cm}}$ hundreds $\underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

Write each number in standard form. pages 4–5

7. $4,000 + 800 + 50 + 2 = \underline{\hspace{2cm}}$

8. $1,000 + 200 + 30 + 9 = \underline{\hspace{2cm}}$

9. $7,000 + 600 + 90 + 4 = \underline{\hspace{2cm}}$

10. $5,000 + 400 + 50 = \underline{\hspace{2cm}}$

Write the value of each underlined digit. pages 6–7

11. $42,\underline{7}13$ $\underline{\hspace{1cm}}$

12. $1\underline{2},674$ $\underline{\hspace{1cm}}$

13. $19,\underline{8}91$ $\underline{\hspace{1cm}}$

14. $\underline{7}3,876$ $\underline{\hspace{1cm}}$

15. $10,\underline{2}04$ $\underline{\hspace{1cm}}$

16. $25,\underline{5}63$ $\underline{\hspace{1cm}}$

Compare. Ring $>$ or $<$. pages 8–9

17.
 $146 \begin{matrix} > \\ < \end{matrix} 164$

18.
 $852 \begin{matrix} > \\ < \end{matrix} 851$

19.
 $1,516 \begin{matrix} > \\ < \end{matrix} 1,420$

20.
 $32,120 \begin{matrix} > \\ < \end{matrix} 32,133$

21.
 $6,909 \begin{matrix} > \\ < \end{matrix} 6,919$

22.
 $544 \begin{matrix} > \\ < \end{matrix} 549$

CHAPTER 1

Round each number to the nearest ten. pages 10–11

23. 19 _____

24. 32 _____

25. 73 _____

26. 86 _____

27. 55 _____

28. 26 _____

Round each number to the nearest ten. pages 12–13

29. 437 _____

30. 253 _____

31. 3,318 _____

32. 2,245 _____

33. 8,242 _____

34. 623 _____

Round each number to the nearest hundred. pages 12–13

35. 276 _____

36. 145 _____

37. 42,281 _____

38. 640 _____

39. 3,456 _____

40. 523 _____

Round each number to the nearest thousand. pages 12–13

41. 1,386 _____

42. 3,792 _____

43. 26,113 _____

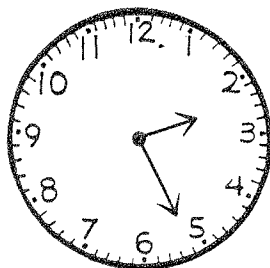
44. 6,500 _____

45. 43,240 _____

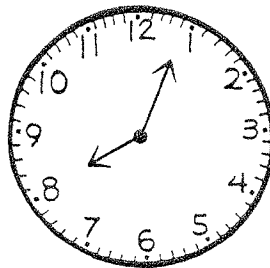
46. 55,696 _____

Write each time. pages 14–15

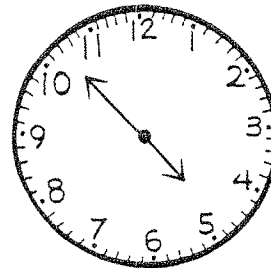
47.



48.



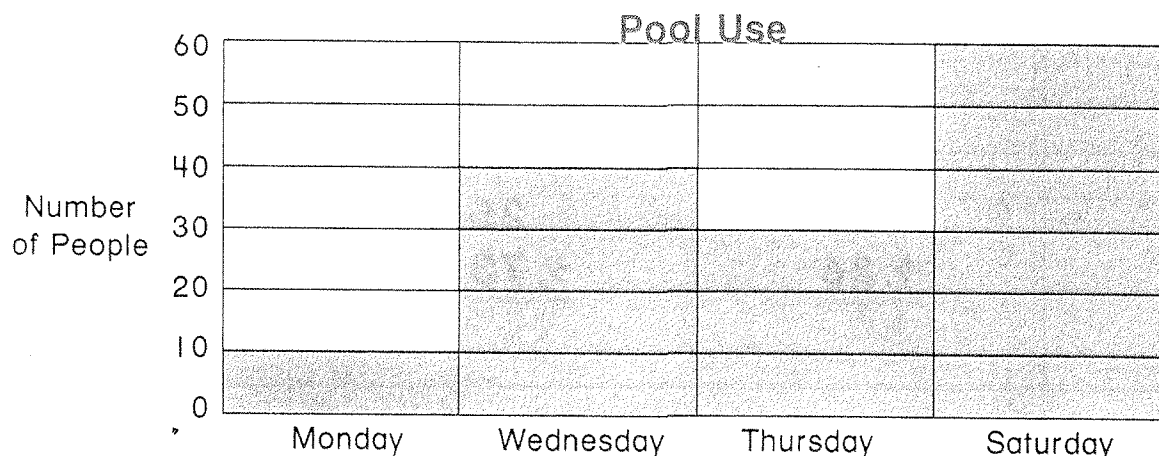
49.



CHAPTER 1

Cumulative Review

A lifeguard made this graph to show how many people are using the pool each day it is open.



Look at the graph.

Write how many people used the pool.

pages 16–17

50. _____ people on Wednesday

51. _____ people on Thursday

Use the graph to answer.

52. What day is the pool used most? _____

53. What day is the pool used least? _____

54. How many more people used the pool on Wednesday than on Monday?

—

more people

55. How many more people used the pool on Saturday than on Thursday?

—

more people

Add.

| | | | |
|---|--|--|--|
| pages 24–25 1. $\begin{array}{r} 7 \\ + 4 \\ \hline \end{array}$ | 2. $\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$ | 3. $\begin{array}{r} 9 \\ + 6 \\ \hline \end{array}$ | 4. $\begin{array}{r} 5 \\ + 8 \\ \hline \end{array}$ |
| pages 26–27 5. $\begin{array}{r} 42 \\ + 17 \\ \hline \end{array}$ | 6. $\begin{array}{r} 63 \\ + 36 \\ \hline \end{array}$ | 7. $\begin{array}{r} 25 \\ + 73 \\ \hline \end{array}$ | 8. $\begin{array}{r} 37 \\ + 34 \\ \hline \end{array}$ |
| 9. $\begin{array}{r} 56 \\ + 27 \\ \hline \end{array}$ | 10. $\begin{array}{r} 75 \\ + 15 \\ \hline \end{array}$ | 11. $\begin{array}{r} 39 \\ + 22 \\ \hline \end{array}$ | 12. $\begin{array}{r} 47 \\ + 48 \\ \hline \end{array}$ |
| pages 28–29 13. $\begin{array}{r} 573 \\ + 218 \\ \hline \end{array}$ | 14. $\begin{array}{r} 666 \\ + 141 \\ \hline \end{array}$ | 15. $\begin{array}{r} 487 \\ + 466 \\ \hline \end{array}$ | 16. $\begin{array}{r} 493 \\ + 168 \\ \hline \end{array}$ |
| 17. $\begin{array}{r} 342 \\ + 179 \\ \hline \end{array}$ | 18. $\begin{array}{r} 6,496 \\ + 508 \\ \hline \end{array}$ | 19. $\begin{array}{r} 2,468 \\ + 1,701 \\ \hline \end{array}$ | 20. $\begin{array}{r} 7,692 \\ + 1,310 \\ \hline \end{array}$ |

Subtract.

| | | | |
|--|---|---|---|
| pages 30–31 21. $\begin{array}{r} 11 \\ - 7 \\ \hline \end{array}$ | 22. $\begin{array}{r} 10 \\ - 5 \\ \hline \end{array}$ | 23. $\begin{array}{r} 13 \\ - 6 \\ \hline \end{array}$ | 24. $\begin{array}{r} 17 \\ - 8 \\ \hline \end{array}$ |
|--|---|---|---|

Subtract.

pages 32–33

25.

$$\begin{array}{r} 76 \\ - 51 \\ \hline \end{array}$$

26.

$$\begin{array}{r} 89 \\ - 34 \\ \hline \end{array}$$

27.

$$\begin{array}{r} 52 \\ - 35 \\ \hline \end{array}$$

28.

$$\begin{array}{r} 91 \\ - 64 \\ \hline \end{array}$$

29.

$$\begin{array}{r} 42 \\ - 14 \\ \hline \end{array}$$

30.

$$\begin{array}{r} 46 \\ - 27 \\ \hline \end{array}$$

31.

$$\begin{array}{r} 63 \\ - 38 \\ \hline \end{array}$$

32.

$$\begin{array}{r} 37 \\ - 19 \\ \hline \end{array}$$

pages 34–35

33.

$$\begin{array}{r} 629 \\ - 103 \\ \hline \end{array}$$

34.

$$\begin{array}{r} 876 \\ - 438 \\ \hline \end{array}$$

35.

$$\begin{array}{r} 592 \\ - 162 \\ \hline \end{array}$$

36.

$$\begin{array}{r} 726 \\ - 457 \\ \hline \end{array}$$

37.

$$\begin{array}{r} 423 \\ - 189 \\ \hline \end{array}$$

38.

$$\begin{array}{r} 1,592 \\ - 493 \\ \hline \end{array}$$

39.

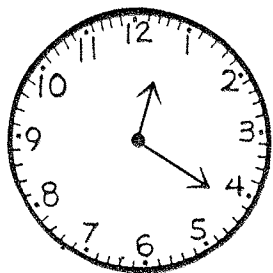
$$\begin{array}{r} 3,765 \\ - 1,842 \\ \hline \end{array}$$

40.

$$\begin{array}{r} 8,347 \\ - 3,682 \\ \hline \end{array}$$

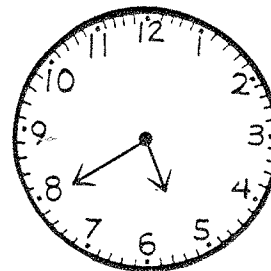
Write each time two ways. pages 36–37

41.



_____ or _____ minutes after _____

42.



_____ or _____ minutes after _____

> Use each table to make a graph.

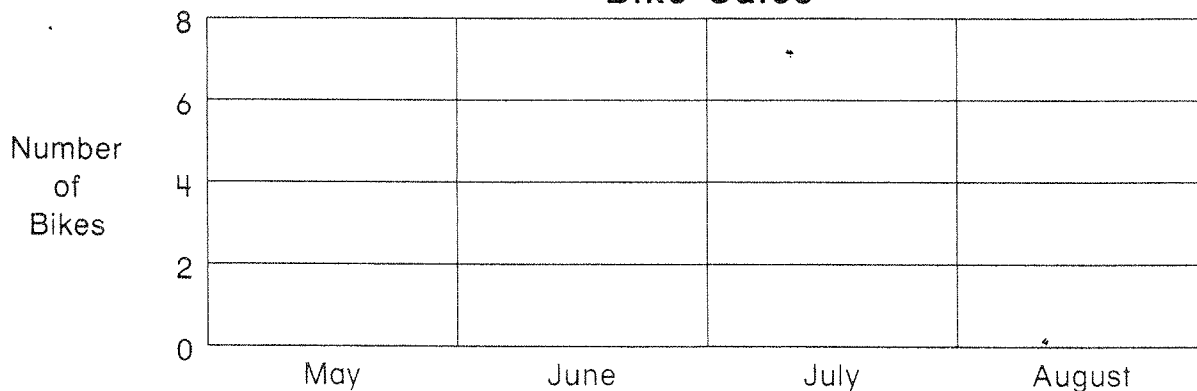
pages 38–39

43. Adams' Sports made this table to show how many mountain bikes they sold in 4 months.

Bike Sales

| | |
|--------|---|
| May | 6 |
| June | 8 |
| July | 2 |
| August | 4 |

Bike Sales

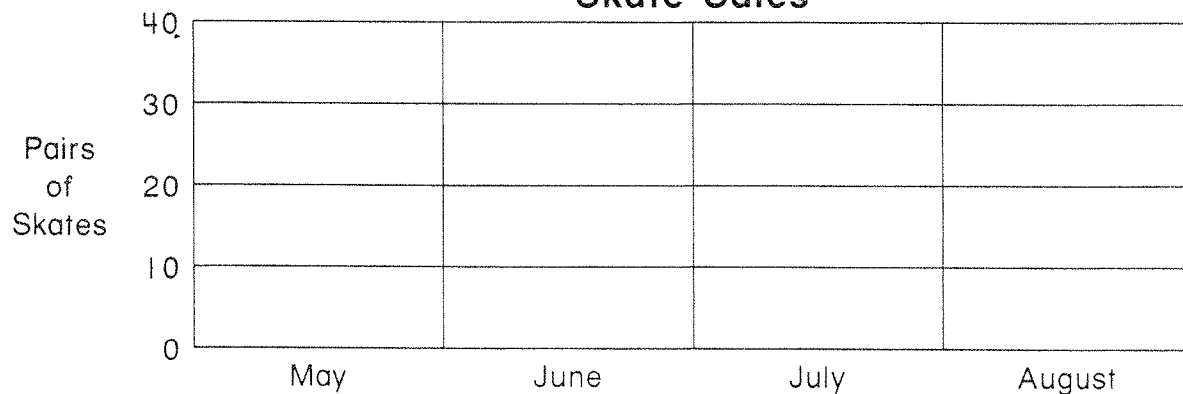


44. Diaz's Sports made this table to show how many pairs of skates they sold in 4 months.

Skate Sales

| | |
|--------|----|
| May | 20 |
| June | 30 |
| July | 20 |
| August | 40 |

Skate Sales



Multiply.

pages 46–49

$$\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 7 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 6 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 9 \\ \times 4 \\ \hline \end{array}$$

pages 50–51

$$\begin{array}{r} 5. \quad 3 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 5 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 8 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 7 \\ \times 6 \\ \hline \end{array}$$

pages 52–57

$$\begin{array}{r} 9. \quad 1 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 2 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 6 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 7 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 4 \\ \times 8 \\ \hline \end{array}$$

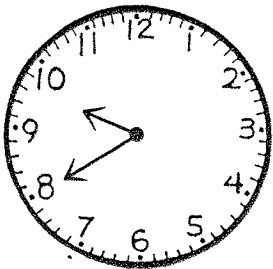
$$\begin{array}{r} 14. \quad 6 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 6 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad 9 \\ \times 9 \\ \hline \end{array}$$

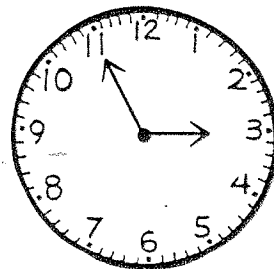
Write each time two ways. pages 58–59

17.



_____ or _____ minutes to _____

18.



_____ or _____ minutes to _____

CHAPTER 3

Round to the nearest ten.

pages 60–61

19. Stan drove 19 miles to the store.

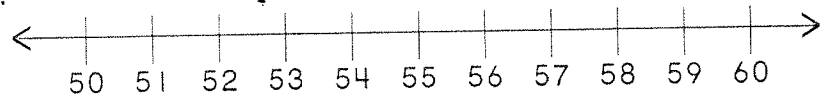
Is that nearer to 10 or 20?



It is nearer to ____.

20. Pearl put 56 cans on a shelf.

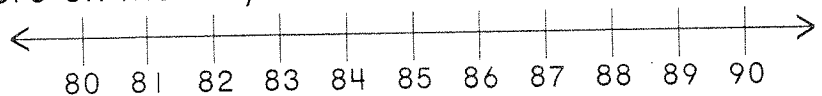
Is that nearer to 50 or 60?



It is nearer to ____.

21. 84 people shopped in the store on Monday.

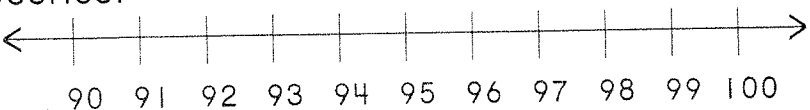
Is that nearer to 80 or 90?



It is nearer to ____.

22. Sean bagged 96 sacks of groceries.

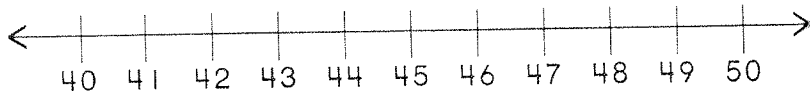
Is that nearer to 90 or 100?



It is nearer to ____.

23. Cally put 44 apples in a bin.

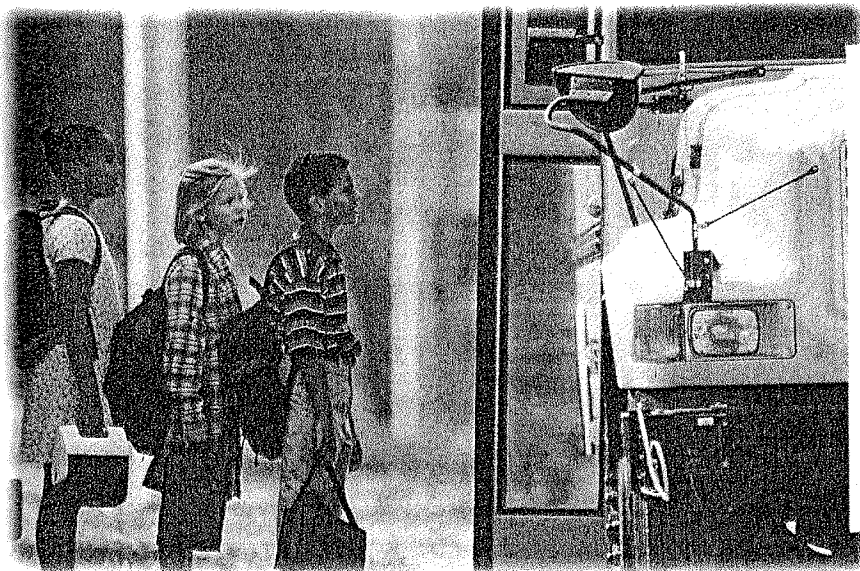
Is that nearer to 40 or 50?



It is nearer to ____.

4

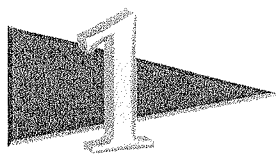
Multiplying by 1-Digit Numbers



Carlo and his friends rode to school on a bus that had 11 bench seats on each side. How many bench seats in all were on their school bus? If 2 people sat on each bench, how many passengers were on the bus?

Solve.

Write a problem about the way that you get to school.



Tens, Hundreds, and Thousands

You can use the multiplication facts through 9 to multiply large numbers.

Multiplication fact

$$\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$$

Multiply 4 tens by 2.

$$\begin{array}{r} 4 \text{ tens} \quad 4 \text{ tens} = 40 \\ \times 2 \\ \hline 8 \text{ tens} \quad 8 \text{ tens} = 80 \end{array}$$

Multiply 4 hundreds by 2.

$$\begin{array}{r} 4 \text{ hundreds} \quad 4 \text{ hundreds} = 400 \\ \times 2 \\ \hline 8 \text{ hundreds} \quad 8 \text{ hundreds} = 800 \end{array}$$

Multiply 4 thousands by 2.

$$\begin{array}{r} 4 \text{ thousands} \quad 4 \text{ thousands} = 4,000 \\ \times 2 \\ \hline 8 \text{ thousands} \quad 8 \text{ thousands} = 8,000 \end{array}$$

Look at the zero pattern. What do you see?

$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array} \quad \begin{array}{r} 60 \\ \times 3 \\ \hline 180 \end{array} \quad \begin{array}{r} 600 \\ \times 3 \\ \hline 1,800 \end{array} \quad \begin{array}{r} 6,000 \\ \times 3 \\ \hline 18,000 \end{array}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array} \quad \begin{array}{r} 60 \\ \times 4 \\ \hline 240 \end{array} \quad \begin{array}{r} 600 \\ \times 4 \\ \hline 2,400 \end{array} \quad \begin{array}{r} 6,000 \\ \times 4 \\ \hline 24,000 \end{array}$$

Guided Practice

Multiply.

| | | | |
|--|---|--|--|
| 1. $\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$ | 2. $\begin{array}{r} 30 \\ \times 3 \\ \hline \end{array}$ | 3. $\begin{array}{r} 300 \\ \times 3 \\ \hline \end{array}$ | 4. $\begin{array}{r} 3,000 \\ \times 3 \\ \hline \end{array}$ |
|--|---|--|--|

Practice

Multiply.

| | | | | |
|---|--|--|---|---|
| 1. $\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$ | 2. $\begin{array}{r} 20 \\ \times 2 \\ \hline \end{array}$ | 3. $\begin{array}{r} 10 \\ \times 3 \\ \hline \end{array}$ | 4. $\begin{array}{r} 100 \\ \times 3 \\ \hline \end{array}$ | 5. $\begin{array}{r} 300 \\ \times 4 \\ \hline \end{array}$ |
| 6. $\begin{array}{r} 3,000 \\ \times 4 \\ \hline \end{array}$ | 7. $\begin{array}{r} 40 \\ \times 2 \\ \hline \end{array}$ | 8. $\begin{array}{r} 400 \\ \times 2 \\ \hline \end{array}$ | 9. $\begin{array}{r} 60 \\ \times 3 \\ \hline \end{array}$ | 10. $\begin{array}{r} 600 \\ \times 3 \\ \hline \end{array}$ |
| 11. $\begin{array}{r} 6,000 \\ \times 3 \\ \hline \end{array}$ | 12. $\begin{array}{r} 50 \\ \times 3 \\ \hline \end{array}$ | 13. $\begin{array}{r} 20 \\ \times 8 \\ \hline \end{array}$ | 14. $\begin{array}{r} 200 \\ \times 8 \\ \hline \end{array}$ | 15. $\begin{array}{r} 2,000 \\ \times 8 \\ \hline \end{array}$ |

Using Math

- Mary bought 2 sacks of dog food. Each sack holds 50 pounds. How many pounds did she buy in all?

She bought _____ pounds of dog food.

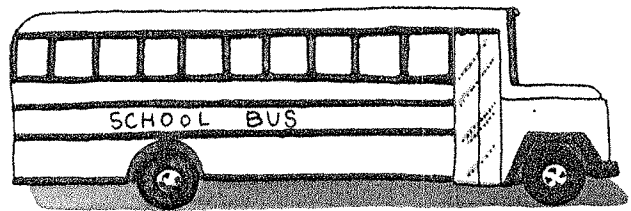
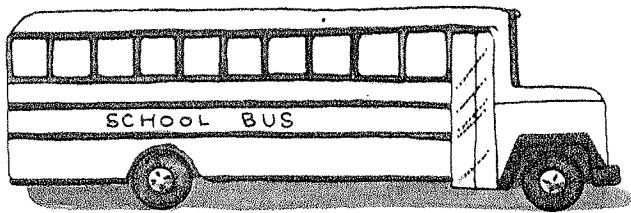


Work here.

2

Multiplying Ones and Tens

Each school bus carries 24 students. How many students are on both buses?



Multiply 2×24 to find the answer.

Step 1 Multiply the 4 ones by 2.

| | tens | ones |
|----------|------|------|
| | 2 | 4 |
| \times | | 2 |
| | | 8 |

Step 2 Multiply the 2 tens by 2.

| | tens | ones |
|----------|------|------|
| | 2 | 4 |
| \times | | 2 |
| | 4 | 8 |

There are 48 students on the two buses.

Guided Practice

► Multiply.

| | | | | |
|--|---|---|---|---|
| 1. $\begin{array}{r} 34 \\ \times 2 \\ \hline 68 \end{array}$ | 2. $\begin{array}{r} 42 \\ \times 2 \\ \hline \end{array}$ | 3. $\begin{array}{r} 13 \\ \times 3 \\ \hline \end{array}$ | 4. $\begin{array}{r} 11 \\ \times 7 \\ \hline \end{array}$ | 5. $\begin{array}{r} 40 \\ \times 2 \\ \hline \end{array}$ |
|--|---|---|---|---|

Practice

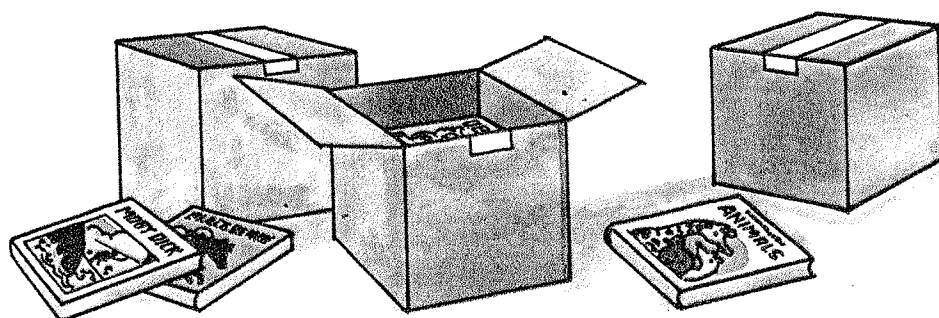
Multiply.

| | | | | |
|--|--|--|--|--|
| 1. $\begin{array}{r} 11 \\ \times 9 \\ \hline \end{array}$ | 2. $\begin{array}{r} 22 \\ \times 2 \\ \hline \end{array}$ | 3. $\begin{array}{r} 30 \\ \times 3 \\ \hline \end{array}$ | 4. $\begin{array}{r} 12 \\ \times 4 \\ \hline \end{array}$ | 5. $\begin{array}{r} 11 \\ \times 5 \\ \hline \end{array}$ |
| 6. $\begin{array}{r} 44 \\ \times 2 \\ \hline \end{array}$ | 7. $\begin{array}{r} 20 \\ \times 4 \\ \hline \end{array}$ | 8. $\begin{array}{r} 13 \\ \times 2 \\ \hline \end{array}$ | 9. $\begin{array}{r} 42 \\ \times 2 \\ \hline \end{array}$ | 10. $\begin{array}{r} 12 \\ \times 2 \\ \hline \end{array}$ |
| 11. $\begin{array}{r} 13 \\ \times 3 \\ \hline \end{array}$ | 12. $\begin{array}{r} 21 \\ \times 4 \\ \hline \end{array}$ | 13. $\begin{array}{r} 10 \\ \times 8 \\ \hline \end{array}$ | 14. $\begin{array}{r} 14 \\ \times 2 \\ \hline \end{array}$ | 15. $\begin{array}{r} 10 \\ \times 6 \\ \hline \end{array}$ |

Using Math

There are 3 boxes of new books for the library. Each box holds 12 books. How many new books are there in all?

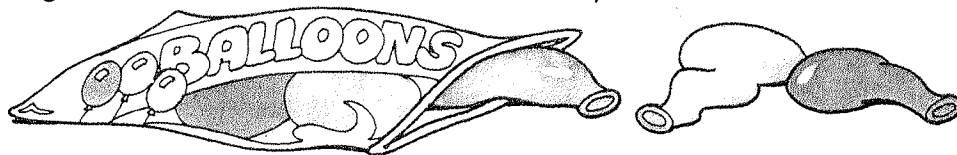
There are _____ new books in all.



Work here.

Multiplication with Regrouping

Sarah is in charge of the balloon-throwing contest for the carnival. She bought 8 dozen balloons. How many balloons did she buy?



Multiply 8×12 to find the answer.

Step 1 Multiply the 2 ones by 8.

$$8 \times 2 \text{ ones} = 16 \text{ ones}$$

Regroup 16 ones as 1 ten 6 ones.

Write 6 in the ones' place.

Write 1 in the tens' column.

| | tens | ones |
|----------|------|------|
| | 1 | 2 |
| \times | | 8 |
| | | 6 |

Step 2 Multiply the 1 ten by 8.

$$8 \times 1 \text{ ten} = 8 \text{ tens}$$

Then add the 1 ten.

$$8 \text{ tens} + 1 \text{ ten} = 9 \text{ tens}$$

Write 9 in the tens' place.

| | tens | ones |
|----------|------|------|
| | 1 | 2 |
| \times | | 8 |
| | 9 | 6 |

Guided Practice

► Multiply.

| | | | | |
|--|---|---|---|---|
| 1. | 2. | 3. | 4. | 5. |
| $\begin{array}{r} 19 \\ \times 2 \\ \hline 38 \end{array}$ | $\begin{array}{r} 13 \\ \times 3 \\ \hline \end{array}$ | $\begin{array}{r} 16 \\ \times 4 \\ \hline \end{array}$ | $\begin{array}{r} 19 \\ \times 3 \\ \hline \end{array}$ | $\begin{array}{r} 12 \\ \times 5 \\ \hline \end{array}$ |

Practice

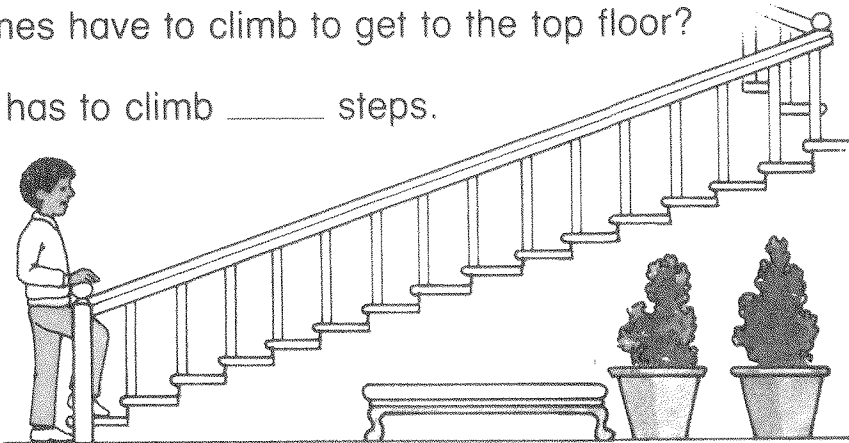
Multiply.

| | | | | |
|--|--|--|--|--|
| 1. $\begin{array}{r} 24 \\ \times 3 \\ \hline \end{array}$ | 2. $\begin{array}{r} 12 \\ \times 7 \\ \hline \end{array}$ | 3. $\begin{array}{r} 12 \\ \times 3 \\ \hline \end{array}$ | 4. $\begin{array}{r} 12 \\ \times 5 \\ \hline \end{array}$ | 5. $\begin{array}{r} 17 \\ \times 2 \\ \hline \end{array}$ |
| 6. $\begin{array}{r} 15 \\ \times 6 \\ \hline \end{array}$ | 7. $\begin{array}{r} 14 \\ \times 4 \\ \hline \end{array}$ | 8. $\begin{array}{r} 23 \\ \times 4 \\ \hline \end{array}$ | 9. $\begin{array}{r} 16 \\ \times 2 \\ \hline \end{array}$ | 10. $\begin{array}{r} 19 \\ \times 3 \\ \hline \end{array}$ |
| 11. $\begin{array}{r} 16 \\ \times 3 \\ \hline \end{array}$ | 12. $\begin{array}{r} 12 \\ \times 4 \\ \hline \end{array}$ | 13. $\begin{array}{r} 17 \\ \times 4 \\ \hline \end{array}$ | 14. $\begin{array}{r} 19 \\ \times 4 \\ \hline \end{array}$ | 15. $\begin{array}{r} 17 \\ \times 5 \\ \hline \end{array}$ |

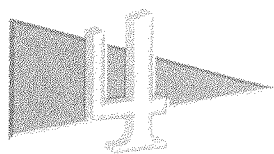
Using Math

James works in a building that has 6 flights of stairs. Each flight has 16 steps. How many steps does James have to climb to get to the top floor?

He has to climb _____ steps.



Work here.



Multiplication with Regrouping

Sometimes when you multiply, the answer is greater than 100.

How many stars are there?



Multiply 3×48 .

Step 1 Multiply the 8 ones by 3.

$$3 \times 8 \text{ ones} = 24 \text{ ones}$$

Regroup 24 ones as 2 tens 4 ones.

Write 4 in the ones' place.

Write 2 in the tens' column.

$$\begin{array}{r} 2 \\ 48 \\ \times 3 \\ \hline 4 \end{array}$$

Step 2 Multiply the 4 tens by 3.

$$3 \times 4 \text{ tens} = 12 \text{ tens}$$

Add the 2 tens.

$$12 \text{ tens} + 2 \text{ tens} = 14 \text{ tens}$$

Regroup 14 tens as 1 hundred 4 tens.

Write 4 in the tens' place.

Write 1 in the hundreds' place.

$$\begin{array}{r} 2 \\ 48 \\ \times 3 \\ \hline 144 \end{array}$$

Guided Practice

Multiply.

| | | | | |
|--|---|---|---|---|
| 1. $\begin{array}{r} 1 \\ 52 \\ \times 6 \\ \hline 312 \end{array}$ | 2. $\begin{array}{r} 47 \\ \times 4 \\ \hline \end{array}$ | 3. $\begin{array}{r} 33 \\ \times 6 \\ \hline \end{array}$ | 4. $\begin{array}{r} 27 \\ \times 8 \\ \hline \end{array}$ | 5. $\begin{array}{r} 42 \\ \times 4 \\ \hline \end{array}$ |
|--|---|---|---|---|

Practice

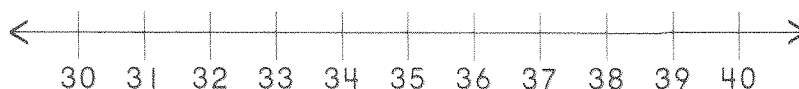
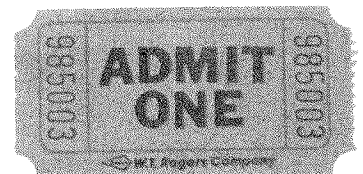
Multiply.

| | | | | |
|--|--|--|--|--|
| 1. $\begin{array}{r} 23 \\ \times 6 \\ \hline \end{array}$ | 2. $\begin{array}{r} 55 \\ \times 4 \\ \hline \end{array}$ | 3. $\begin{array}{r} 17 \\ \times 9 \\ \hline \end{array}$ | 4. $\begin{array}{r} 31 \\ \times 4 \\ \hline \end{array}$ | 5. $\begin{array}{r} 52 \\ \times 2 \\ \hline \end{array}$ |
| 6. $\begin{array}{r} 21 \\ \times 7 \\ \hline \end{array}$ | 7. $\begin{array}{r} 27 \\ \times 6 \\ \hline \end{array}$ | 8. $\begin{array}{r} 92 \\ \times 3 \\ \hline \end{array}$ | 9. $\begin{array}{r} 85 \\ \times 3 \\ \hline \end{array}$ | 10. $\begin{array}{r} 57 \\ \times 2 \\ \hline \end{array}$ |
| 11. $\begin{array}{r} 19 \\ \times 8 \\ \hline \end{array}$ | 12. $\begin{array}{r} 24 \\ \times 8 \\ \hline \end{array}$ | 13. $\begin{array}{r} 41 \\ \times 4 \\ \hline \end{array}$ | 14. $\begin{array}{r} 77 \\ \times 6 \\ \hline \end{array}$ | 15. $\begin{array}{r} 13 \\ \times 7 \\ \hline \end{array}$ |

Problem Solving

There are 34 rows of seats in the new movie theater.
Is that nearer to 30 or 40?

It is nearer to _____.





Multiplying Larger Numbers

A movie theater holds 175 people. Three shows are given on Saturday. How many people can see the movie on Saturday?

Step 1 Multiply the 5 ones by 3.

$$3 \times 5 \text{ ones} = 15 \text{ ones}$$

Regroup 15 ones as 1 ten 5 ones.

Write 5 in the ones' place.

Write 1 in the tens' column.

$$\begin{array}{r} 175 \\ \times 3 \\ \hline 5 \end{array}$$

Step 2 Multiply the 7 tens by 3.

$$3 \times 7 \text{ tens} = 21 \text{ tens}$$

Add 1 ten to get 22 tens.

Regroup 22 tens as 2 hundreds 2 tens.

Write 2 in the tens' place.

Write 2 in the hundreds' column.

$$\begin{array}{r} 21 \\ 175 \\ \times 3 \\ \hline 25 \end{array}$$

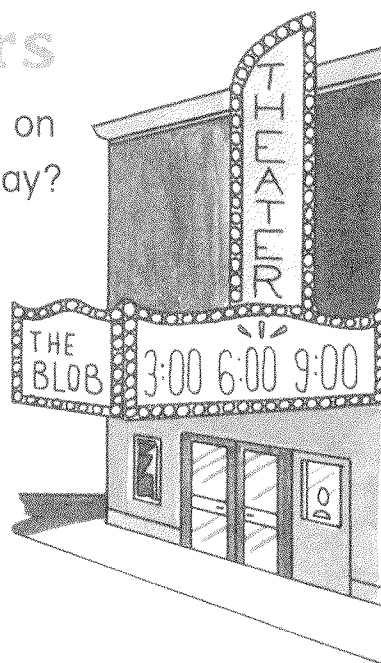
Step 3 Multiply the 1 hundred by 3.

$$3 \times 1 \text{ hundred} = 3 \text{ hundreds}$$

Add the 2 hundreds to get 5 hundreds.

Write 5 in the hundreds' place.

$$\begin{array}{r} 21 \\ 175 \\ \times 3 \\ \hline 525 \end{array}$$



Guided Practice

Multiply.

| | | | | |
|--|--|--|--|--|
| 1. | 2. | 3. | 4. | 5. |
| $\begin{array}{r} 13 \\ 127 \\ \times 5 \\ \hline 635 \end{array}$ | $\begin{array}{r} 155 \\ \times 4 \\ \hline \end{array}$ | $\begin{array}{r} 312 \\ \times 3 \\ \hline \end{array}$ | $\begin{array}{r} 244 \\ \times 3 \\ \hline \end{array}$ | $\begin{array}{r} 123 \\ \times 8 \\ \hline \end{array}$ |

Practice

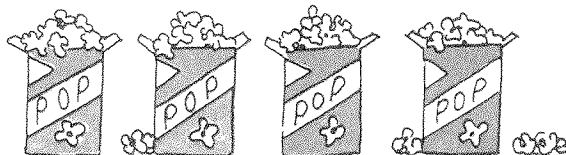
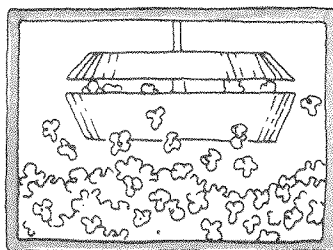
➤ Multiply.

| | | | | |
|---|---|---|---|---|
| 1. $\begin{array}{r} 234 \\ \times 3 \\ \hline \end{array}$ | 2. $\begin{array}{r} 415 \\ \times 2 \\ \hline \end{array}$ | 3. $\begin{array}{r} 122 \\ \times 4 \\ \hline \end{array}$ | 4. $\begin{array}{r} 135 \\ \times 6 \\ \hline \end{array}$ | 5. $\begin{array}{r} 121 \\ \times 5 \\ \hline \end{array}$ |
| 6. $\begin{array}{r} 304 \\ \times 2 \\ \hline \end{array}$ | 7. $\begin{array}{r} 245 \\ \times 3 \\ \hline \end{array}$ | 8. $\begin{array}{r} 142 \\ \times 5 \\ \hline \end{array}$ | 9. $\begin{array}{r} 157 \\ \times 4 \\ \hline \end{array}$ | 10. $\begin{array}{r} 417 \\ \times 2 \\ \hline \end{array}$ |
| 11. $\begin{array}{r} 114 \\ \times 3 \\ \hline \end{array}$ | 12. $\begin{array}{r} 242 \\ \times 3 \\ \hline \end{array}$ | 13. $\begin{array}{r} 352 \\ \times 2 \\ \hline \end{array}$ | 14. $\begin{array}{r} 112 \\ \times 5 \\ \hline \end{array}$ | 15. $\begin{array}{r} 176 \\ \times 2 \\ \hline \end{array}$ |

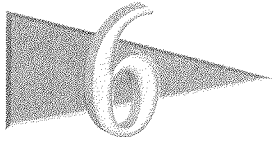
Using Math

➤ The new movie theater holds 162 people. There will be 3 shows on Sunday. Suppose each person buys a box of popcorn. How many boxes of popcorn will be sold?

_____ boxes of popcorn will be sold.



Work here.



Larger Products

When you multiply 432 by 4, the answer is greater than 1,000.

Step 1 Multiply the ones.

$$4 \times 2 = 8$$

Write 8 in the ones' place.

$$\begin{array}{r} 432 \\ \times 4 \\ \hline 8 \end{array}$$

Step 2 Multiply the tens.

$$4 \times 3 \text{ tens} = 12 \text{ tens}$$

Regroup 12 tens as 1 hundred 2 tens.

Write 2 in the tens' place.

Write 1 in the hundreds' column.

$$\begin{array}{r} 1 \\ 432 \\ \times 4 \\ \hline 28 \end{array}$$

Step 3 Multiply the hundreds.

$$4 \times 4 \text{ hundreds} = 16 \text{ hundreds}$$

Add 1 hundred to get 17 hundreds.

Regroup 17 hundreds as 1 thousand 7 hundreds.

Write 7 in the hundreds' place.

Write 1 in the thousands' place.

$$\begin{array}{r} 1 \\ 432 \\ \times 4 \\ \hline 1,728 \end{array}$$

Guided Practice

➤ Multiply.

| | | | | |
|--|--|--|--|--|
| 1. $\begin{array}{r} 421 \\ \times 5 \\ \hline 2,105 \end{array}$ | 2. $\begin{array}{r} 573 \\ \times 2 \\ \hline \end{array}$ | 3. $\begin{array}{r} 642 \\ \times 3 \\ \hline \end{array}$ | 4. $\begin{array}{r} 874 \\ \times 3 \\ \hline \end{array}$ | 5. $\begin{array}{r} 362 \\ \times 4 \\ \hline \end{array}$ |
|--|--|--|--|--|

Practice

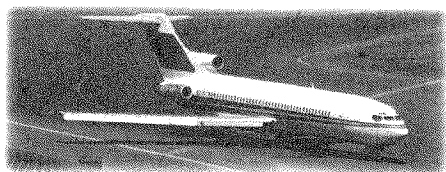
Multiply.

| | | | | |
|---|---|---|---|---|
| 1. $\begin{array}{r} 245 \\ \times 6 \\ \hline \end{array}$ | 2. $\begin{array}{r} 376 \\ \times 3 \\ \hline \end{array}$ | 3. $\begin{array}{r} 504 \\ \times 2 \\ \hline \end{array}$ | 4. $\begin{array}{r} 617 \\ \times 5 \\ \hline \end{array}$ | 5. $\begin{array}{r} 392 \\ \times 4 \\ \hline \end{array}$ |
| 6. $\begin{array}{r} 493 \\ \times 8 \\ \hline \end{array}$ | 7. $\begin{array}{r} 812 \\ \times 4 \\ \hline \end{array}$ | 8. $\begin{array}{r} 777 \\ \times 5 \\ \hline \end{array}$ | 9. $\begin{array}{r} 129 \\ \times 8 \\ \hline \end{array}$ | 10. $\begin{array}{r} 656 \\ \times 7 \\ \hline \end{array}$ |
| 11. $\begin{array}{r} 669 \\ \times 8 \\ \hline \end{array}$ | 12. $\begin{array}{r} 285 \\ \times 9 \\ \hline \end{array}$ | 13. $\begin{array}{r} 404 \\ \times 7 \\ \hline \end{array}$ | 14. $\begin{array}{r} 839 \\ \times 9 \\ \hline \end{array}$ | 15. $\begin{array}{r} 318 \\ \times 8 \\ \hline \end{array}$ |

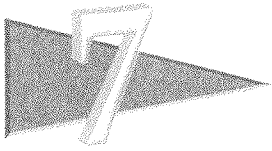
Using Math

Three jets took off for New York City. Each jet had 376 people on board. How many people were on the jets?

There were _____ people on the jets.



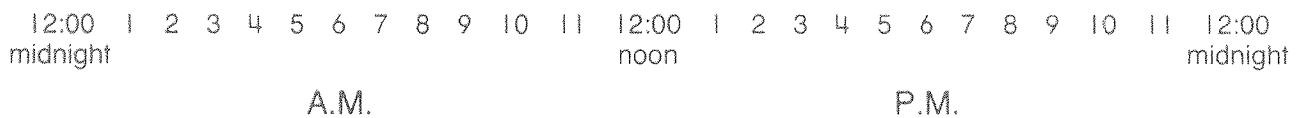
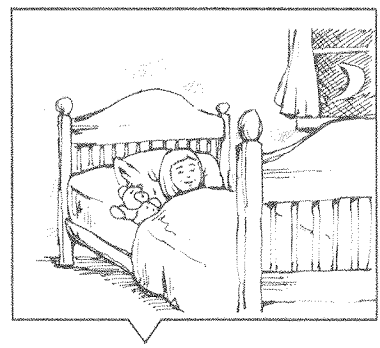
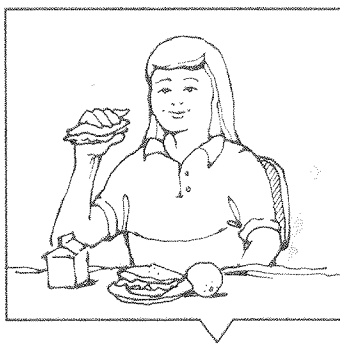
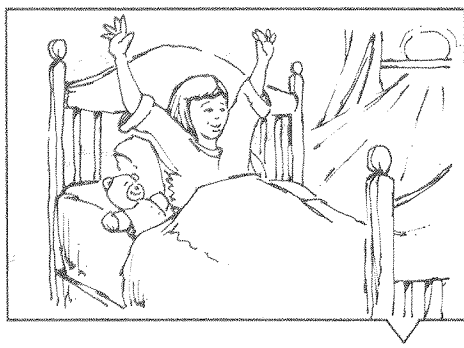
Work here.



A.M. and P.M.

A day begins at 12:00 at night. It is called **midnight**. The 12 hours from midnight to 12:00 are **A.M.** hours.

The second 12:00 is called **noon**. The 12 hours from noon to midnight are called **P.M.** hours.



Guided Practice

Ring A.M. or P.M.

- | | | |
|----------------------------------|------|---------------------------------------|
| 1. Pam goes to bed at 9:30. | A.M. | <input checked="" type="radio"/> P.M. |
| 2. Rodney eats lunch at 1:00. | A.M. | P.M. |
| 3. Sarah leaves school at 3:30. | A.M. | P.M. |
| 4. Jason eats breakfast at 7:05. | A.M. | P.M. |
| 5. Carmen wakes up at 6:30. | A.M. | P.M. |

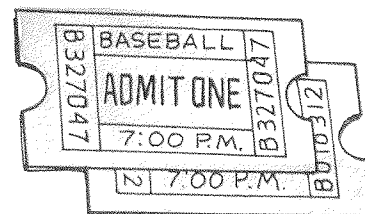
Practice

Ring A.M. or P.M.

- | | | |
|---------------------------------------|------|------|
| 1. Grace eats breakfast at 7:30. | A.M. | P.M. |
| 2. Dale goes to dance class at 4:30. | A.M. | P.M. |
| 3. Jack gets dressed at 7:15. | A.M. | P.M. |
| 4. Joan eats lunch at 12:30. | A.M. | P.M. |
| 5. Diane wakes up at 7:00. | A.M. | P.M. |
| 6. Ann goes to bed at 9:00. | A.M. | P.M. |
| 7. Bob plays baseball at 3:30. | A.M. | P.M. |
| 8. Craig leaves school at 4:00. | A.M. | P.M. |
| 9. George goes to school at 7:45. | A.M. | P.M. |
| 10. Kathy takes a nap at 1:30. | A.M. | P.M. |
| 11. Ryan's class has recess at 11:00. | A.M. | P.M. |
| 12. Pat plays soccer at 4:00. | A.M. | P.M. |

Using Math

The time is now 7:30 A.M. Saul has tickets to go to the baseball game. The game starts at 7:00 P.M. Check (✓) each box that tells something Saul can do between now and the time the game starts.



- | | |
|--|---|
| <input type="checkbox"/> Eat breakfast at 7:00 A.M. | <input type="checkbox"/> Do homework at 3:30 P.M. |
| <input type="checkbox"/> Sweep the garage at 5:00 P.M. | <input type="checkbox"/> Watch T.V. at 8:00 P.M. |



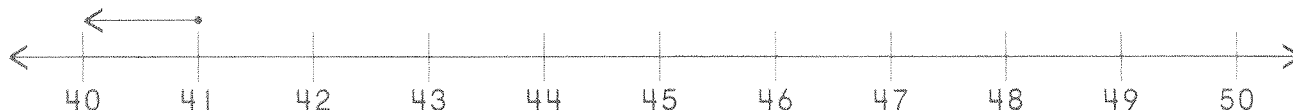
Problem Solving

Estimation

Each bus has 41 students on it. There are 6 buses.
About how many students in all are there?

The word **about** means an exact answer is not needed.
You can **estimate** the answer.

Round to the nearest ten.



$$\begin{array}{r} 41 \\ \times 6 \\ \hline \end{array}$$

41 \longrightarrow Round 41 down to 40.

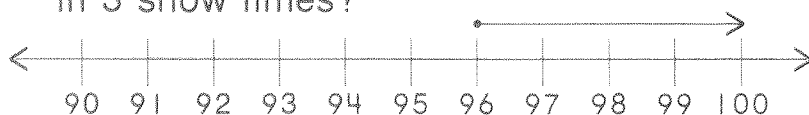
\longrightarrow 40

There are about $\begin{array}{r} \times 6 \\ 240 \end{array}$ students.

Guided Practice

Round to the nearest ten.
Estimate to solve.

1. Terri set up 96 chairs in front of the stage.
About how many people can see the play
in 3 show times?

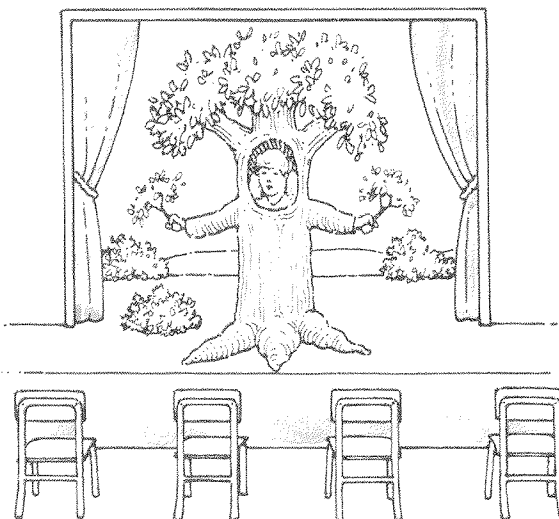


$$\begin{array}{r} 96 \\ \times 3 \\ \hline \end{array}$$

\longrightarrow 100

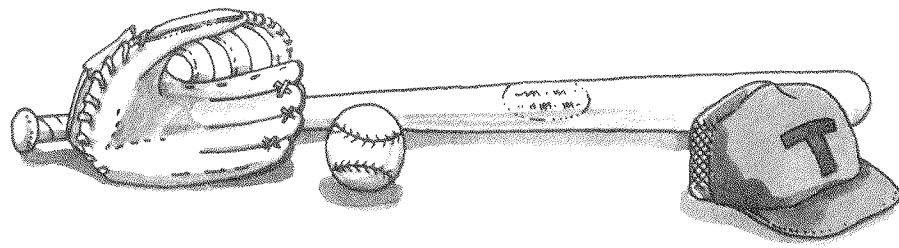
$$\begin{array}{r} \times 3 \\ \hline \end{array}$$

about people



Practice

Round to the nearest ten.
Estimate to solve.



1. Hermie's class has 23 students. Each student has 6 books. About how many books in all are there?

$$\begin{array}{r} 23 \\ \times 6 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 6 \\ \hline \end{array}$$

about books

2. Alita needed 8 strips of ribbon. Each strip must be 38 inches. About how many inches of ribbon will Alita need?

$$\begin{array}{r} 38 \\ \times 8 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 8 \\ \hline \end{array}$$

about inches

3. A can of coffee weighed 2 pounds. A store bought a case of 24 cans. About how much does the case of coffee weigh?

$$\begin{array}{r} 24 \\ \times 2 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 2 \\ \hline \end{array}$$

about pounds

4. Kim's scout troop earned 8 points for every case of candy they sold. The troop sold 52 cases. About how many points did they earn?

$$\begin{array}{r} 52 \\ \times 8 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 8 \\ \hline \end{array}$$

about points

5. Mia threw a baseball 64 feet. Tom says he can throw a ball 3 times as far as Mia threw. About how far does Tom think he can throw a baseball?

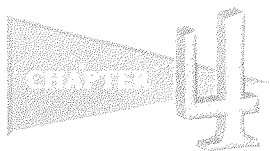
$$\begin{array}{r} 64 \\ \times 3 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 3 \\ \hline \end{array}$$

about feet

6. Tyrone reads about 11 pages each day in his favorite book. About how many pages can he read in 4 days?

$$\begin{array}{r} 11 \\ \times 4 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 4 \\ \hline \end{array}$$

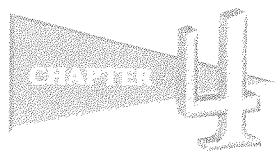
about pages



Review

Multiply.

| | | | |
|---|--|--|--|
| pages 76–77 1. $\begin{array}{r} 20 \\ \times 3 \\ \hline \end{array}$ | 2. $\begin{array}{r} 400 \\ \times 2 \\ \hline \end{array}$ | 3. $\begin{array}{r} 50 \\ \times 3 \\ \hline \end{array}$ | 4. $\begin{array}{r} 10 \\ \times 9 \\ \hline \end{array}$ |
| pages 78–79 5. $\begin{array}{r} 33 \\ \times 2 \\ \hline \end{array}$ | 6. $\begin{array}{r} 12 \\ \times 4 \\ \hline \end{array}$ | 7. $\begin{array}{r} 21 \\ \times 3 \\ \hline \end{array}$ | 8. $\begin{array}{r} 11 \\ \times 8 \\ \hline \end{array}$ |
| pages 80–81 9. $\begin{array}{r} 25 \\ \times 3 \\ \hline \end{array}$ | 10. $\begin{array}{r} 15 \\ \times 4 \\ \hline \end{array}$ | 11. $\begin{array}{r} 45 \\ \times 2 \\ \hline \end{array}$ | 12. $\begin{array}{r} 16 \\ \times 5 \\ \hline \end{array}$ |
| 13. $\begin{array}{r} 24 \\ \times 3 \\ \hline \end{array}$ | 14. $\begin{array}{r} 38 \\ \times 2 \\ \hline \end{array}$ | 15. $\begin{array}{r} 27 \\ \times 2 \\ \hline \end{array}$ | 16. $\begin{array}{r} 17 \\ \times 4 \\ \hline \end{array}$ |
| pages 82–83 17. $\begin{array}{r} 26 \\ \times 8 \\ \hline \end{array}$ | 18. $\begin{array}{r} 94 \\ \times 4 \\ \hline \end{array}$ | 19. $\begin{array}{r} 71 \\ \times 6 \\ \hline \end{array}$ | 20. $\begin{array}{r} 39 \\ \times 5 \\ \hline \end{array}$ |
| 21. $\begin{array}{r} 63 \\ \times 5 \\ \hline \end{array}$ | 22. $\begin{array}{r} 76 \\ \times 2 \\ \hline \end{array}$ | 23. $\begin{array}{r} 49 \\ \times 6 \\ \hline \end{array}$ | 24. $\begin{array}{r} 57 \\ \times 7 \\ \hline \end{array}$ |



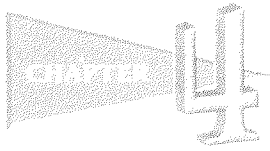
Review

Multiply.

| | | | |
|--|---|---|---|
| <p>pages 84–85</p> <p>25.</p> $\begin{array}{r} 142 \\ \times 4 \\ \hline \end{array}$ | <p>26.</p> $\begin{array}{r} 426 \\ \times 2 \\ \hline \end{array}$ | <p>27.</p> $\begin{array}{r} 119 \\ \times 6 \\ \hline \end{array}$ | <p>28.</p> $\begin{array}{r} 237 \\ \times 3 \\ \hline \end{array}$ |
| <p>29.</p> $\begin{array}{r} 355 \\ \times 2 \\ \hline \end{array}$ | <p>30.</p> $\begin{array}{r} 362 \\ \times 2 \\ \hline \end{array}$ | <p>31.</p> $\begin{array}{r} 124 \\ \times 5 \\ \hline \end{array}$ | <p>32.</p> $\begin{array}{r} 232 \\ \times 4 \\ \hline \end{array}$ |
| <p>pages 86–87</p> <p>33.</p> $\begin{array}{r} 461 \\ \times 8 \\ \hline \end{array}$ | <p>34.</p> $\begin{array}{r} 522 \\ \times 6 \\ \hline \end{array}$ | <p>35.</p> $\begin{array}{r} 430 \\ \times 5 \\ \hline \end{array}$ | <p>36.</p> $\begin{array}{r} 319 \\ \times 7 \\ \hline \end{array}$ |
| <p>37.</p> $\begin{array}{r} 352 \\ \times 3 \\ \hline \end{array}$ | <p>38.</p> $\begin{array}{r} 246 \\ \times 5 \\ \hline \end{array}$ | <p>39.</p> $\begin{array}{r} 768 \\ \times 4 \\ \hline \end{array}$ | <p>40.</p> $\begin{array}{r} 635 \\ \times 7 \\ \hline \end{array}$ |

Ring A.M. or P.M. pages 88–89

- | | | |
|---|------|------|
| 41. The sun is shining at 11:00. | A.M. | P.M. |
| 42. Michael wakes up at 7:30. | A.M. | P.M. |
| 43. The store opens at 10:00. | A.M. | P.M. |
| 44. Leslie goes to bed at 9:30. | A.M. | P.M. |
| 45. After school, the chorus meets at 4:00. | A.M. | P.M. |



Review


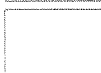
Round to the nearest ten.

Estimate to solve.

pages 90–91



46. There were 58 cookies in a package. Alice had 6 packages. About how many cookies in all did Alice have?

$$\begin{array}{r} 58 \\ \times 6 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \\ \hline \end{array}$$

 about  cookies



47. A can of lemonade made 32 ounces. Robert bought 8 cans. About how many ounces of lemonade can Robert make?

$$\begin{array}{r} 32 \\ \times 8 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \\ \hline \end{array}$$

 about  ounces



48. There were 89 straws in a box. Kiki had 3 boxes of straws. About how many straws in all were there?

$$\begin{array}{r} 89 \\ \times 3 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \\ \hline \end{array}$$

 about  straws



49. There are 24 cups in a package. Lara has 7 packages. About how many cups in all are there?

$$\begin{array}{r} 24 \\ \times 7 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \\ \hline \end{array}$$

 about  cups



50. There were 46 students at the picnic. Each student can have 2 hot dogs. About how many hot dogs in all are there?

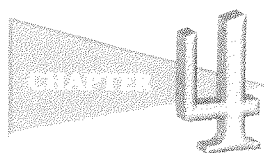
$$\begin{array}{r} 46 \\ \times 2 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \\ \hline \end{array}$$

 about  hot dogs

51. A watermelon can be cut into 62 slices. Sheku has 9 watermelons. About how many slices can Sheku cut?

$$\begin{array}{r} 62 \\ \times 9 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \\ \hline \end{array}$$

 about  slices



Test

Multiply.

| | | | |
|---|---|---|---|
| 1. $\begin{array}{r} 30 \\ \times 3 \\ \hline \end{array}$ | 2. $\begin{array}{r} 400 \\ \times 2 \\ \hline \end{array}$ | 3. $\begin{array}{r} 11 \\ \times 3 \\ \hline \end{array}$ | 4. $\begin{array}{r} 24 \\ \times 2 \\ \hline \end{array}$ |
| 5. $\begin{array}{r} 26 \\ \times 3 \\ \hline \end{array}$ | 6. $\begin{array}{r} 46 \\ \times 2 \\ \hline \end{array}$ | 7. $\begin{array}{r} 32 \\ \times 8 \\ \hline \end{array}$ | 8. $\begin{array}{r} 76 \\ \times 3 \\ \hline \end{array}$ |
| 9. $\begin{array}{r} 276 \\ \times 3 \\ \hline \end{array}$ | 10. $\begin{array}{r} 125 \\ \times 6 \\ \hline \end{array}$ | 11. $\begin{array}{r} 418 \\ \times 2 \\ \hline \end{array}$ | 12. $\begin{array}{r} 148 \\ \times 3 \\ \hline \end{array}$ |
| 13. $\begin{array}{r} 283 \\ \times 4 \\ \hline \end{array}$ | 14. $\begin{array}{r} 376 \\ \times 5 \\ \hline \end{array}$ | 15. $\begin{array}{r} 508 \\ \times 7 \\ \hline \end{array}$ | 16. $\begin{array}{r} 724 \\ \times 6 \\ \hline \end{array}$ |

Ring A.M. or P.M.

- | | | |
|---|------|------|
| 17. Maria eats lunch at 12:15. | A.M. | P.M. |
| 18. Martin gets dressed for school at 7:30. | A.M. | P.M. |
| 19. After breakfast, Pat's father goes to work. | A.M. | P.M. |
| 20. The last class at school ends at 2:30. | A.M. | P.M. |



CHAPTER 4 Test

Round to the nearest ten.

Estimate to solve.



21. Meg planted 24 seeds in a row. She made 7 rows. About how many plants in all did Meg have?

$$\begin{array}{r} 24 \longrightarrow \boxed{} \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} \longrightarrow \boxed{} \\ \times 7 \\ \hline \end{array}$$

 about  plants



22. A shelf held 75 flower plants. There are 3 shelves. How many plants in all are there?

$$\begin{array}{r} 75 \longrightarrow \boxed{} \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} \longrightarrow \boxed{} \\ \times 3 \\ \hline \end{array}$$

 about  plants



23. A cucumber plant has 28 cucumbers. There are 2 plants. How many cucumbers in all are there?

$$\begin{array}{r} 28 \longrightarrow \boxed{} \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} \longrightarrow \boxed{} \\ \times 2 \\ \hline \end{array}$$

 about  cucumbers



24. Kao has 36 packages of seedling pots. Each package had 6 pots. About how many pots in all did Kao have?

$$\begin{array}{r} 36 \longrightarrow \boxed{} \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} \longrightarrow \boxed{} \\ \times 6 \\ \hline \end{array}$$

 about  pots



25. Kim has 18 bags of potting soil. Each bag weighs 5 pounds. About how much in all do the bags weigh?

$$\begin{array}{r} 18 \longrightarrow \boxed{} \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} \longrightarrow \boxed{} \\ \times 5 \\ \hline \end{array}$$

 about  pounds

26. There are 57 feet of fencing around the Garden Center. Each section is 8 feet long. About how many feet of fencing in all are there?

$$\begin{array}{r} 57 \longrightarrow \boxed{} \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} \longrightarrow \boxed{} \\ \times 8 \\ \hline \end{array}$$

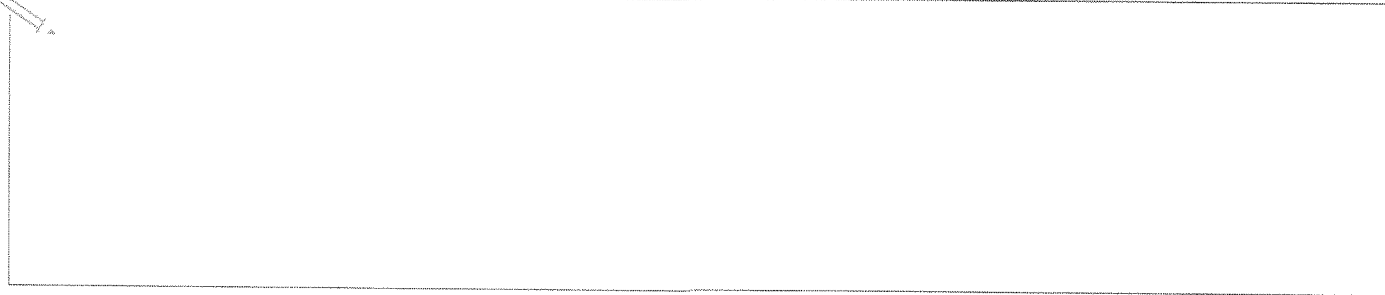
 about  feet

5

Division Facts
Through 9

Andrew's baseball team scored 24 runs in 3 games. If they had the same score each time, how many runs did they score in each game?

Solve.



Write a problem about a game you like to play.



Practice

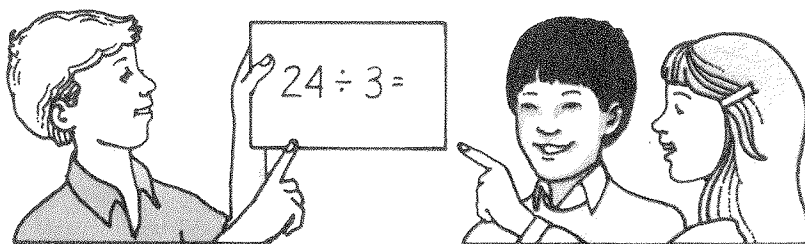
Divide.

| | | | | |
|---------------------------|---------------------------|--------------------------|--------------------------|---------------------------|
| 1. $1 \overline{)6}$ | 2. $3 \overline{)18}$ | 3. $2 \overline{)8}$ | 4. $4 \overline{)16}$ | 5. $2 \overline{)18}$ |
| 6. $3 \overline{)27}$ | 7. $2 \overline{)14}$ | 8. $1 \overline{)9}$ | 9. $4 \overline{)12}$ | 10. $3 \overline{)6}$ |
| 11. $2 \overline{)10}$ | 12. $3 \overline{)24}$ | 13. $1 \overline{)5}$ | 14. $4 \overline{)8}$ | 15. $2 \overline{)16}$ |
| 16. $3 \div 1 =$ | 17. $2 \div 2 =$ | 18. $12 \div 3 =$ | 19. $24 \div 4 =$ | |

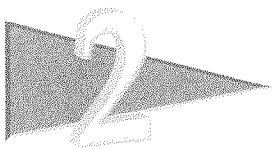
Using Math

There are 24 students in Shawn's class. They are studying in groups of 3. How many groups of 3 are there?

There are _____ groups.



Work here.



Dividing by 5 and 6

How many **fives** are in 15? You can use a multiplication fact to answer this division question.

| Multiplying fives | | | | |
|-------------------|-------------------|-------------------|-------------------|-------------------|
| $1 \times 5 = 5$ | $2 \times 5 = 10$ | $3 \times 5 = 15$ | $4 \times 5 = 20$ | $5 \times 5 = 25$ |
| $6 \times 5 = 30$ | $7 \times 5 = 35$ | $8 \times 5 = 40$ | $9 \times 5 = 45$ | |

Since $3 \times 5 = 15$, you know that $15 \div 5 = 3$.

There are 3 **fives** in 15.

How many **sixes** are in 24?

| Multiplying sixes | | | | |
|-------------------|-------------------|-------------------|-------------------|-------------------|
| $1 \times 6 = 6$ | $2 \times 6 = 12$ | $3 \times 6 = 18$ | $4 \times 6 = 24$ | $5 \times 6 = 30$ |
| $6 \times 6 = 36$ | $7 \times 6 = 42$ | $8 \times 6 = 48$ | $9 \times 6 = 54$ | |

Since $4 \times 6 = 24$, you know that $24 \div 6 = 4$.

There are 4 **sixes** in 24.

Guided Practice

Multiply. Then use the multiplication fact to help you divide.

| | | | |
|---|--|---|---|
| 1. $4 \times 5 = \underline{20}$ $\begin{array}{r} 4 \\ 5 \overline{)20} \end{array}$ | 2. $1 \times 6 = \underline{\quad}$ $\begin{array}{r} 6 \overline{)6} \end{array}$ | 3. $7 \times 6 = \underline{\quad}$ $\begin{array}{r} 6 \overline{)42} \end{array}$ | 4. $3 \times 6 = \underline{\quad}$ $18 \div 6 = \underline{\quad}$ |
|---|--|---|---|

Practice

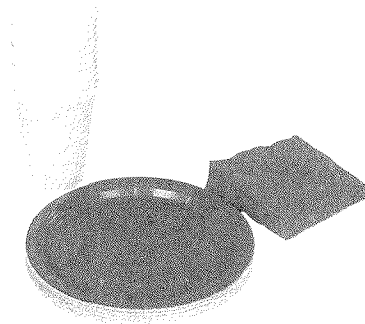
Divide.

| | | | | |
|---------------------------|--------------------------|---------------------------|---------------------------|---------------------------|
| 1. $5 \overline{)35}$ | 2. $6 \overline{)42}$ | 3. $5 \overline{)15}$ | 4. $6 \overline{)48}$ | 5. $6 \overline{)6}$ |
| 6. $5 \overline{)45}$ | 7. $6 \overline{)30}$ | 8. $5 \overline{)25}$ | 9. $5 \overline{)10}$ | 10. $4 \overline{)16}$ |
| 11. $6 \overline{)18}$ | 12. $5 \overline{)5}$ | 13. $6 \overline{)36}$ | 14. $6 \overline{)24}$ | 15. $2 \overline{)14}$ |
| 16. $40 \div 5 =$ | 17. $12 \div 6 =$ | 18. $30 \div 5 =$ | 19. $54 \div 6 =$ | |

Using Math

Ana needs to buy 42 cups for the picnic. There are 6 cups in a package. How many packages should Ana buy?

Ana should buy _____ packages.



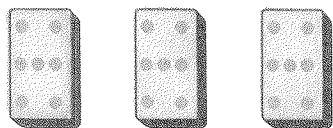
Work here.



Dividing by 7

How many **sevens** are in 21? You can use a multiplication fact to answer this division question.

| Multiplying sevens | | | | |
|--------------------|-------------------|-------------------|-------------------|-------------------|
| $1 \times 7 = 7$ | $2 \times 7 = 14$ | $3 \times 7 = 21$ | $4 \times 7 = 28$ | $5 \times 7 = 35$ |
| $6 \times 7 = 42$ | $7 \times 7 = 49$ | $8 \times 7 = 56$ | $9 \times 7 = 63$ | |



Since $3 \times 7 = 21$, you know that $21 \div 7 = 3$.

There are 3 **sevens** in 21.

Guided Practice

Multiply. Then use the multiplication fact to help you divide.

| | | | |
|---|---|---|---|
| 1. $1 \times 7 = \underline{7}$ $7 \overline{)7}$ | 2. $2 \times 7 = \underline{\quad}$ $7 \overline{)14}$ | 3. $3 \times 7 = \underline{\quad}$ $7 \overline{)21}$ | 4. $5 \times 7 = \underline{\quad}$ $7 \overline{)35}$ |
| 5. $7 \times 7 = \underline{\quad}$ $49 \div 7 = \underline{\quad}$ | 6. $4 \times 7 = \underline{\quad}$ $28 \div 7 = \underline{\quad}$ | 7. $9 \times 7 = \underline{\quad}$ $63 \div 7 = \underline{\quad}$ | 8. $6 \times 7 = \underline{\quad}$ $42 \div 7 = \underline{\quad}$ |

Practice

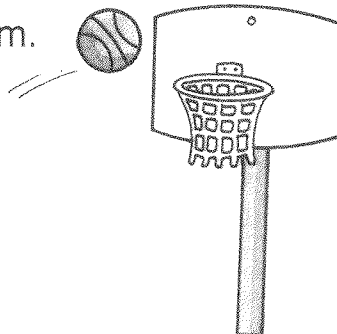
Divide.

| | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 1. $7 \overline{)35}$ | 2. $7 \overline{)42}$ | 3. $7 \overline{)56}$ | 4. $2 \overline{)14}$ | 5. $6 \overline{)54}$ |
| 6. $7 \overline{)63}$ | 7. $3 \overline{)21}$ | 8. $4 \overline{)20}$ | 9. $7 \overline{)28}$ | 10. $4 \overline{)12}$ |
| 11. $5 \overline{)40}$ | 12. $5 \overline{)35}$ | 13. $6 \overline{)36}$ | 14. $7 \overline{)49}$ | 15. $3 \overline{)27}$ |
| 16. $18 \div 2 =$ | 17. $42 \div 6 =$ | 18. $14 \div 7 =$ | 19. $24 \div 6 =$ | |

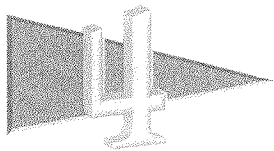
Using Math

The basketball team took a total of 56 practice shots. Each player took 7 shots. How many players are on the team?

There are _____ players on the team.



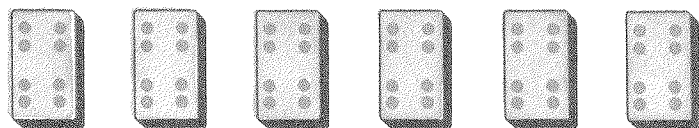
Work here.



Dividing by 8

How many **eights** are in 48? You can use a multiplication fact to answer this division question.

| Multiplying eights | | | | |
|--------------------|-------------------|-------------------|-------------------|-------------------|
| $1 \times 8 = 8$ | $2 \times 8 = 16$ | $3 \times 8 = 24$ | $4 \times 8 = 32$ | $5 \times 8 = 40$ |
| $6 \times 8 = 48$ | $7 \times 8 = 56$ | $8 \times 8 = 64$ | $9 \times 8 = 72$ | |



Since $6 \times 8 = 48$, you know that $48 \div 8 = 6$.

There are 6 **eights** in 48.

Guided Practice

Multiply. Then use the multiplication fact to help you divide.

| | | | |
|---|---|---|---|
| 1. $4 \times 8 = \underline{32}$ $\begin{array}{r} 4 \\ 8 \overline{)32} \end{array}$ | 2. $8 \times 8 = \underline{\quad}$ $\begin{array}{r} 8 \overline{)64} \end{array}$ | 3. $5 \times 8 = \underline{\quad}$ $\begin{array}{r} 8 \overline{)40} \end{array}$ | 4. $2 \times 8 = \underline{\quad}$ $\begin{array}{r} 8 \overline{)16} \end{array}$ |
| 5. $6 \times 8 = \underline{\quad}$ $48 \div 8 = \underline{\quad}$ | 6. $1 \times 8 = \underline{\quad}$ $8 \div 8 = \underline{\quad}$ | 7. $3 \times 8 = \underline{\quad}$ $24 \div 8 = \underline{\quad}$ | 8. $7 \times 8 = \underline{\quad}$ $56 \div 8 = \underline{\quad}$ |

Practice

Divide.

| | | | | |
|---------------------------|---------------------------|--------------------------|---------------------------|---------------------------|
| 1. $8 \overline{)56}$ | 2. $8 \overline{)16}$ | 3. $8 \overline{)72}$ | 4. $7 \overline{)56}$ | 5. $8 \overline{)24}$ |
| 6. $5 \overline{)40}$ | 7. $6 \overline{)54}$ | 8. $3 \overline{)24}$ | 9. $6 \overline{)48}$ | 10. $7 \overline{)42}$ |
| 11. $2 \overline{)16}$ | 12. $4 \overline{)16}$ | 13. $8 \overline{)8}$ | 14. $4 \overline{)32}$ | 15. $6 \overline{)36}$ |
| 16. $40 \div 5 =$ | 17. $40 \div 8 =$ | 18. $32 \div 8 =$ | 19. $64 \div 8 =$ | |

Problem Solving


Round to the nearest ten.

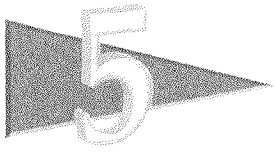
Estimate to solve.

A movie theater has 38 rows of seats.

There are 8 seats in each row.

About how many seats in all are there?

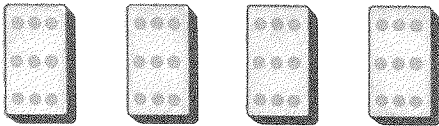
| | | | |
|---|-------------------|--|-------|
| $\begin{array}{r} 38 \\ \times 8 \\ \hline \end{array}$ | \longrightarrow | $\begin{array}{r} \square \\ \times 8 \\ \hline \end{array}$ | |
|  | about | $\begin{array}{r} \square \\ \times 8 \\ \hline \end{array}$ | seats |



Dividing by 9

How many **nines** are in 36? You can use a multiplication fact to answer this division question.

| Multiplying nines | | | | |
|-------------------|-------------------|-------------------|-------------------|-------------------|
| $1 \times 9 = 9$ | $2 \times 9 = 18$ | $3 \times 9 = 27$ | $4 \times 9 = 36$ | $5 \times 9 = 45$ |
| $6 \times 9 = 54$ | $7 \times 9 = 63$ | $8 \times 9 = 72$ | $9 \times 9 = 81$ | |



Since $4 \times 9 = 36$, you know that $36 \div 9 = 4$.
There are 4 **nines** in 36.

Guided Practice

Multiply. Then use the multiplication fact to help you divide.

| | | | |
|---|---|---|---|
| 1. $2 \times 9 = \underline{18}$ $9 \overline{)18}$ | 2. $1 \times 9 = \underline{\quad}$ $9 \overline{)9}$ | 3. $4 \times 9 = \underline{\quad}$ $9 \overline{)36}$ | 4. $3 \times 9 = \underline{\quad}$ $9 \overline{)27}$ |
| 5. $9 \times 9 = \underline{\quad}$ $81 \div 9 = \underline{\quad}$ | 6. $7 \times 9 = \underline{\quad}$ $63 \div 9 = \underline{\quad}$ | 7. $8 \times 9 = \underline{\quad}$ $72 \div 9 = \underline{\quad}$ | 8. $6 \times 9 = \underline{\quad}$ $54 \div 9 = \underline{\quad}$ |

Practice

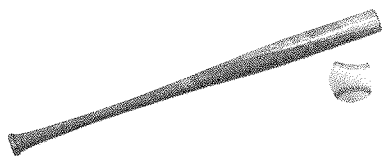
Divide.

| | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 1. $9 \overline{)27}$ | 2. $9 \overline{)54}$ | 3. $9 \overline{)45}$ | 4. $6 \overline{)54}$ | 5. $9 \overline{)72}$ |
| 6. $4 \overline{)32}$ | 7. $8 \overline{)72}$ | 8. $9 \overline{)81}$ | 9. $8 \overline{)64}$ | 10. $7 \overline{)28}$ |
| 11. $6 \overline{)36}$ | 12. $5 \overline{)20}$ | 13. $7 \overline{)49}$ | 14. $3 \overline{)27}$ | 15. $9 \overline{)63}$ |
| 16. $56 \div 8 =$ | 17. $63 \div 7 =$ | 18. $72 \div 8 =$ | 19. $45 \div 5 =$ | |

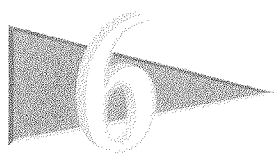
Using Math

There are 36 players on the baseball team. How many groups of 9 players can be made up for practice games?

_____ groups of 9 players can be made up for practice games.



Work here.



Multiplication and Division Facts

You know that multiplication facts can be used to find division facts.
Study the examples below.

| | | | |
|---------------|-------------------|-------------------|-------------------|
| Twos | $3 \times 2 = 6$ | $5 \times 2 = 10$ | $9 \times 2 = 18$ |
| | $6 \div 2 = 3$ | $10 \div 2 = 5$ | $18 \div 2 = 9$ |
| Threes | $4 \times 3 = 12$ | $6 \times 3 = 18$ | $8 \times 3 = 24$ |
| | $12 \div 3 = 4$ | $18 \div 3 = 6$ | $24 \div 3 = 8$ |
| Fours | $4 \times 4 = 16$ | $6 \times 4 = 24$ | $9 \times 4 = 36$ |
| | $16 \div 4 = 4$ | $24 \div 4 = 6$ | $36 \div 4 = 9$ |
| Fives | $1 \times 5 = 5$ | $5 \times 5 = 25$ | $9 \times 5 = 45$ |
| | $5 \div 5 = 1$ | $25 \div 5 = 5$ | $45 \div 5 = 9$ |
| Sixes | $4 \times 6 = 24$ | $6 \times 6 = 36$ | $8 \times 6 = 48$ |
| | $24 \div 6 = 4$ | $36 \div 6 = 6$ | $48 \div 6 = 8$ |
| Sevens | $2 \times 7 = 14$ | $5 \times 7 = 35$ | $8 \times 7 = 56$ |
| | $14 \div 7 = 2$ | $35 \div 7 = 5$ | $56 \div 7 = 8$ |
| Eights | $1 \times 8 = 8$ | $3 \times 8 = 24$ | $7 \times 8 = 56$ |
| | $8 \div 8 = 1$ | $24 \div 8 = 3$ | $56 \div 8 = 7$ |
| Nines | $3 \times 9 = 27$ | $6 \times 9 = 54$ | $9 \times 9 = 81$ |
| | $27 \div 9 = 3$ | $54 \div 9 = 6$ | $81 \div 9 = 9$ |

Guided Practice

Multiply. Then divide.

| | | | |
|--|---|---|---|
| 1. $4 \times 2 = \underline{8}$ $8 \div 2 = \underline{4}$ | 2. $5 \times 3 = \underline{\quad}$ $15 \div 3 = \underline{\quad}$ | 3. $3 \times 4 = \underline{\quad}$ $12 \div 4 = \underline{\quad}$ | 4. $4 \times 6 = \underline{\quad}$ $24 \div 6 = \underline{\quad}$ |
|--|---|---|---|

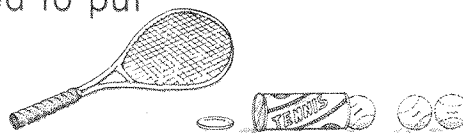
Practice

➤ Multiply. Then divide.

| | | | |
|--|--|--|--|
| 1. $2 \times 2 =$ _____ $4 \div 2 =$ _____ | 2. $3 \times 3 =$ _____ $9 \div 3 =$ _____ | 3. $3 \times 4 =$ _____ $12 \div 4 =$ _____ | 4. $3 \times 5 =$ _____ $15 \div 5 =$ _____ |
| 5. $6 \times 5 =$ _____ $30 \div 5 =$ _____ | 6. $7 \times 6 =$ _____ $42 \div 6 =$ _____ | 7. $3 \times 8 =$ _____ $24 \div 8 =$ _____ | 8. $7 \times 3 =$ _____ $21 \div 3 =$ _____ |
| 9. $5 \times 9 =$ _____ $45 \div 9 =$ _____ | 10. $8 \times 2 =$ _____ $16 \div 2 =$ _____ | 11. $8 \times 4 =$ _____ $32 \div 4 =$ _____ | 12. $7 \times 4 =$ _____ $28 \div 4 =$ _____ |
| 13. $3 \times 6 =$ _____ $18 \div 6 =$ _____ | 14. $4 \times 7 =$ _____ $28 \div 7 =$ _____ | 15. $5 \times 7 =$ _____ $35 \div 7 =$ _____ | 16. $8 \times 9 =$ _____ $72 \div 9 =$ _____ |

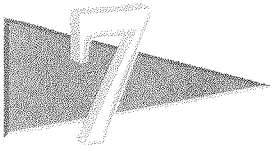
Using Math

- Tim has 24 loose tennis balls.
Tim must put the balls away before he goes home.
3 balls will fit into a can.
How many cans will Tim need to put all the balls away?



Tim needs _____ cans to put all the balls away.

Work here.



Elapsed Time

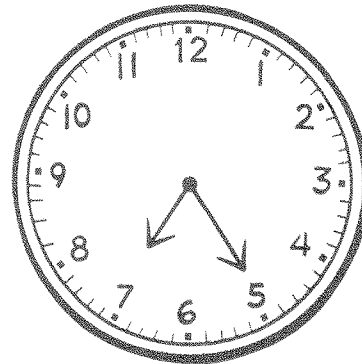
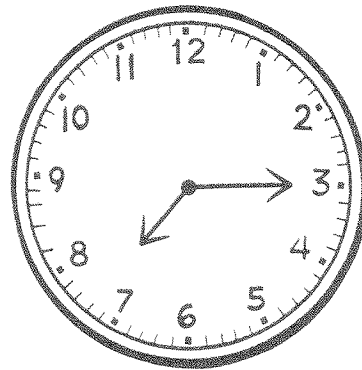
Sometimes you need to know what time it will be in a given number of minutes.

It is 7:15.

What time will it be in 10 minutes?

To find out, start
at the minute hand.
Count 10 more minutes.

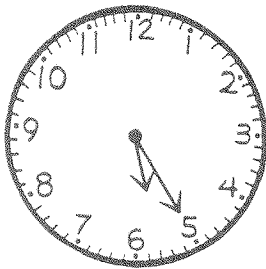
It will be 7:25.



Guided Practice

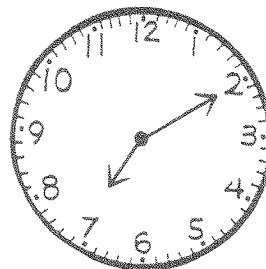
What time will it be?

1.



In 10 minutes it will be 5:35.

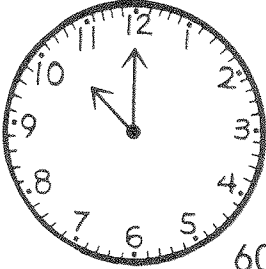
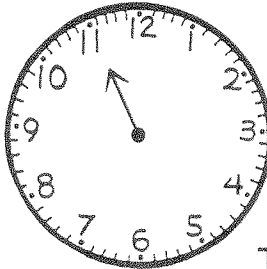
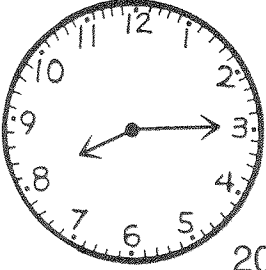
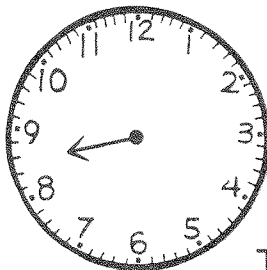
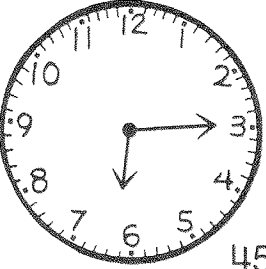
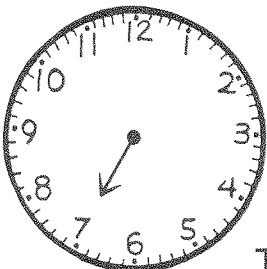
2.



In 5 minutes it will be _____.

Practice

Draw the minute hand to show time it will be. Then write the time.

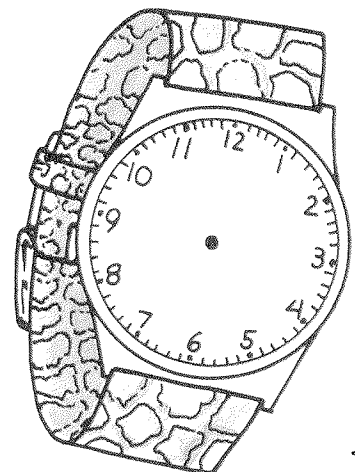
| | | | | |
|----|---|-------------------|--|--------------------|
| 1. |  | 60 minutes go by. |  | The time is _____. |
| 2. |  | 20 minutes go by. |  | The time is _____. |
| 3. |  | 45 minutes go by. |  | The time is _____. |

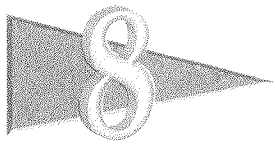
Using Math

It is 5:05 P.M. You tell your friends that you will meet them at Joe's Pizza Place in 35 minutes.

What time will you meet them? _____ P.M.

Draw the hands on the watch to show what time you will be at Joe's Pizza Place.





Problem Solving

Choose an Operation

Micki had 2 packages of hot dogs.
Each package had 8 hot dogs.
How many hot dogs did Micki have?

Micki multiplied because
she put the group of hot dogs together.

Multiply to combine groups.
Divide to separate groups.

$$\begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array}$$

hot dogs

$$\begin{array}{r} 4 \\ 2 \overline{) 8} \end{array}$$

hot dogs



Guided Practice

Ring the correct problem.

1. James has 24 cookies.
He gave an equal number of cookies
to 4 friends. How many cookies
did each friend get?

$$\begin{array}{r} 24 \\ \times 4 \\ \hline 96 \end{array}$$

cookies

$$\begin{array}{r} 6 \\ 4 \overline{) 24} \end{array}$$

cookies

James divided to separate the cookies into groups.

2. Takeo had 9 rows of plants.
Each row had 3 plants.
How many plants in all
did Takeo have?

$$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$$

plants

$$\begin{array}{r} 3 \\ 3 \overline{) 9} \end{array}$$

plants

Practice

Ring the correct problem.

1. Amy had 9 books.

She put them into 3 equal stacks.

How many books
were in each stack?

$$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \text{ books} \end{array}$$

$$\begin{array}{r} 3 \text{ books} \\ 3 \overline{)9} \end{array}$$

2. Justin traded 18 baseball cards
for some tapes.

Each tape cost 9 baseball cards.
How many tapes did Justin get?

$$\begin{array}{r} 18 \\ \times 9 \\ \hline 162 \text{ tapes} \end{array}$$

$$\begin{array}{r} 2 \text{ tapes} \\ 9 \overline{)18} \end{array}$$

3. Seth had 5 packs of cards.

Each pack had 10 cards.

How many cards in all
did Seth have?

$$\begin{array}{r} 10 \\ \times 5 \\ \hline 50 \text{ cards} \end{array}$$

$$\begin{array}{r} 2 \text{ cards} \\ 5 \overline{)10} \end{array}$$

4. Akimi had 32 chairs.

She put them in 4 equal rows.

How many chairs
did Akimi put in each row?

$$\begin{array}{r} 32 \\ \times 4 \\ \hline 128 \text{ chairs} \end{array}$$

$$\begin{array}{r} 8 \text{ chairs} \\ 4 \overline{)32} \end{array}$$

5. Carrie had 2 sets of colored pencils.

Each set had 8 pencils. How
many colored pencils in all
did Carrie have?

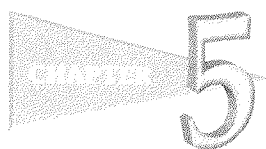
$$\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \text{ pencils} \end{array}$$

$$\begin{array}{r} 4 \text{ pencils} \\ 2 \overline{)8} \end{array}$$

CHAPTER 5 Review

Divide.

| | | | |
|---|-------------------------------|-------------------------------|-------------------------------|
| <p>pages 98–99</p> <p>1.</p> $2 \overline{)14}$ | <p>2.</p> $4 \overline{)20}$ | <p>3.</p> $1 \overline{)9}$ | <p>4.</p> $3 \overline{)18}$ |
| <p>5.</p> $1 \overline{)6}$ | <p>6.</p> $2 \overline{)18}$ | <p>7.</p> $3 \overline{)21}$ | <p>8.</p> $4 \overline{)16}$ |
| <p>pages 100–101</p> <p>9.</p> $5 \overline{)45}$ | <p>10.</p> $6 \overline{)12}$ | <p>11.</p> $5 \overline{)30}$ | <p>12.</p> $6 \overline{)24}$ |
| <p>13.</p> $6 \overline{)18}$ | <p>14.</p> $5 \overline{)25}$ | <p>15.</p> $6 \overline{)42}$ | <p>16.</p> $5 \overline{)10}$ |
| <p>pages 102–103</p> <p>17.</p> $7 \overline{)7}$ | <p>18.</p> $7 \overline{)56}$ | <p>19.</p> $7 \overline{)14}$ | <p>20.</p> $7 \overline{)28}$ |
| <p>21.</p> $7 \overline{)35}$ | <p>22.</p> $7 \overline{)21}$ | <p>23.</p> $7 \overline{)49}$ | <p>24.</p> $7 \overline{)63}$ |



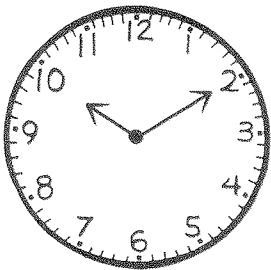
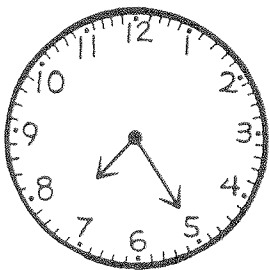
Review

Chapter 5 Review

Divide.

| | | | |
|--|-------------------------------|-------------------------------|-------------------------------|
| <p>pages 104–105</p> <p>25.</p> $8 \overline{)16}$ | <p>26.</p> $8 \overline{)40}$ | <p>27.</p> $8 \overline{)24}$ | <p>28.</p> $8 \overline{)32}$ |
| <p>29.</p> $8 \overline{)8}$ | <p>30.</p> $8 \overline{)48}$ | <p>31.</p> $8 \overline{)72}$ | <p>32.</p> $8 \overline{)56}$ |
| <p>pages 106–107</p> <p>33.</p> $9 \overline{)27}$ | <p>34.</p> $9 \overline{)18}$ | <p>35.</p> $9 \overline{)45}$ | <p>36.</p> $9 \overline{)63}$ |
| <p>37.</p> $9 \overline{)36}$ | <p>38.</p> $9 \overline{)54}$ | <p>39.</p> $9 \overline{)81}$ | <p>40.</p> $9 \overline{)72}$ |

What time will it be? pages 110–111

| | |
|---|---|
| <p>41.</p>  <p>In 40 minutes it will be _____.</p> | <p>42.</p>  <p>In 15 minutes it will be _____.</p> |
|---|---|

CHAPTER 5 Review

Ring the correct problem.

pages 112–113

43. There were 24 students in Lino's class.
They worked in groups of 6 students.
How many groups were there
in Lino's class?

$$\begin{array}{r} 24 \\ \times 6 \\ \hline 144 \end{array}$$

groups

$$\begin{array}{r} 4 \text{ groups} \\ 6 \overline{)24} \end{array}$$

44. Sid's team got 2 touchdowns.
They scored 6 points for each
touchdown. How many points in
all did they score?

$$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$$

points

$$\begin{array}{r} 3 \text{ points} \\ 2 \overline{)6} \end{array}$$

45. Ms. Mintz bought 6 packages of
paintbrushes. Each package had
12 paintbrushes. How many
paintbrushes in all did
Ms. Mintz buy?

$$\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$$

paintbrushes

$$\begin{array}{r} 2 \text{ paintbrushes} \\ 6 \overline{)12} \end{array}$$

46. Mr. Garza had 45 drawings.
He put an equal number of drawings
on 5 boards. How many drawings
did Mr. Garza put on each board?

$$\begin{array}{r} 45 \\ \times 5 \\ \hline 225 \end{array}$$

drawings

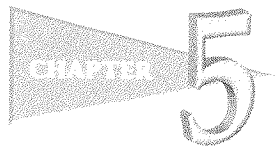
$$\begin{array}{r} 9 \text{ drawings} \\ 5 \overline{)45} \end{array}$$

47. Ernie baked 32 cookies.
He gave an equal number of cookies
to 8 friends. How many cookies did
each friend get?

$$\begin{array}{r} 32 \\ \times 8 \\ \hline 256 \end{array}$$

cookies

$$\begin{array}{r} 4 \text{ cookies} \\ 8 \overline{)32} \end{array}$$

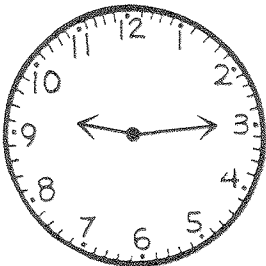
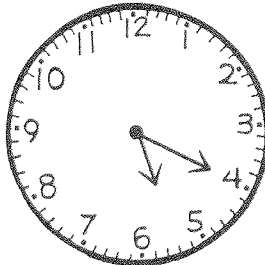


Test

Divide.

| | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|
| 1. $2 \overline{)10}$ | 2. $1 \overline{)6}$ | 3. $3 \overline{)15}$ | 4. $6 \overline{)12}$ |
| 5. $7 \overline{)21}$ | 6. $7 \overline{)63}$ | 7. $7 \overline{)28}$ | 8. $7 \overline{)49}$ |
| 9. $8 \overline{)64}$ | 10. $8 \overline{)8}$ | 11. $8 \overline{)48}$ | 12. $8 \overline{)40}$ |
| 13. $9 \overline{)27}$ | 14. $9 \overline{)63}$ | 15. $9 \overline{)81}$ | 16. $9 \overline{)36}$ |

What time will it be?

| | |
|--|---|
| 17.  In 5 minutes it will be _____. | 18.  In 20 minutes it will be _____. |
|--|---|

CHAPTER 5 Test

Ring the correct problem.

19. Jordan had 4 boxes of microwave popcorn. Each box had 8 bags of popcorn. How many bags of popcorn in all did Jordan have?

$$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \text{ bags} \end{array}$$

$$\begin{array}{r} 2 \text{ bags} \\ 4 \overline{) 8} \end{array}$$

20. Jackie had 12 slices of pizza. She shared the pizza equally among 4 people. How many slices of pizza did each person get?

$$\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \text{ slices} \end{array}$$

$$\begin{array}{r} 3 \text{ slices} \\ 4 \overline{) 12} \end{array}$$

21. The animal shelter had 3 litters of kittens. Each litter had 6 kittens. How many kittens in all were there?

$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \text{ kittens} \end{array}$$

$$\begin{array}{r} 2 \text{ kittens} \\ 3 \overline{) 6} \end{array}$$

22. Mr. Gale put 35 new bikes in racks. Each rack held 5 bikes. How many racks did Mr. Gale fill?

$$\begin{array}{r} 35 \\ \times 5 \\ \hline 175 \text{ racks} \end{array}$$

$$\begin{array}{r} 7 \text{ racks} \\ 5 \overline{) 35} \end{array}$$

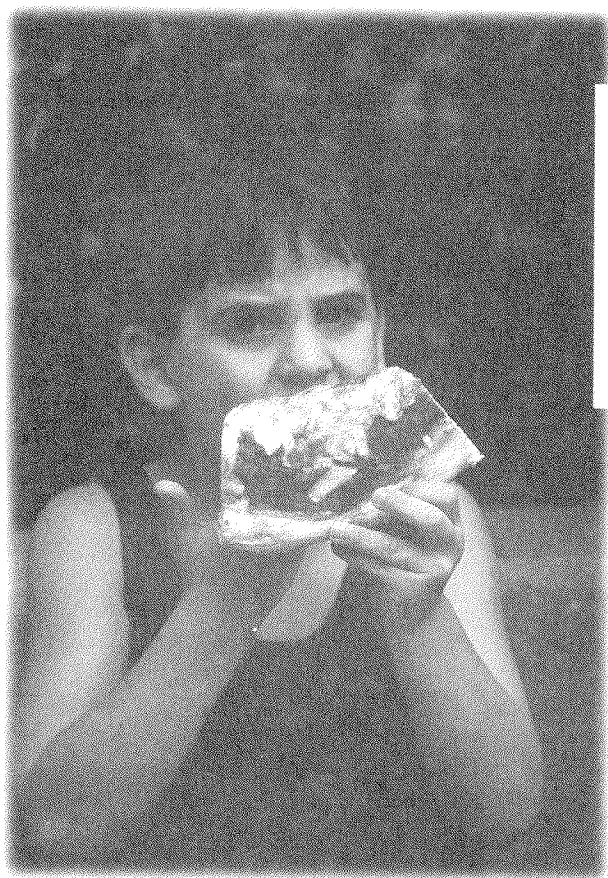
23. Pele bought 3 cases of juice. Each case had 12 cans of juice. How many cans of juice did Pele buy?

$$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \text{ cans} \end{array}$$

$$\begin{array}{r} 4 \text{ cans} \\ 3 \overline{) 12} \end{array}$$

6

Dividing with 1-Digit Divisors

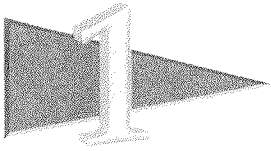


Chad, Mario, and Amy shared a pizza that was cut into 8 pieces. Each of them ate the same number of pieces. How many pieces of pizza did each one of them eat? How many were left over?

Solve



Write a problem about something you like to share.



Division with Remainders

Sometimes you have an amount left over when you divide.

| | | |
|--|--|---|
| <p>Step 1</p> <p>Divide 9 by 2.</p> $\begin{array}{r} 2 \overline{)9} \end{array}$ <p>How many groups of 2 are in 9?</p> <p>There are 4 groups of 2 in 9.</p> $\begin{array}{r} 4 \\ 2 \overline{)9} \end{array}$ | <p>Step 2</p> <p>Multiply 4 by 2.</p> $4 \times 2 = 8$ <p>Place the 8 under the 9.</p> $\begin{array}{r} 4 \\ 2 \overline{)9} \\ \underline{8} \end{array}$ | <p>Step 3</p> <p>Subtract 8 from 9.</p> $9 - 8 = 1$ $\begin{array}{r} 4 \\ 2 \overline{)9} \\ \underline{-8} \\ 1 \end{array}$ |
|--|--|---|

The amount left over is the **remainder**.

It is written with the **quotient**.

$$\begin{array}{r} 4 \text{ R}1 \leftarrow \text{remainder} \\ 2 \overline{)9} \\ \underline{-8} \\ 1 \end{array}$$

Guided Practice

Divide.

| | | | | |
|---|------------------------------|------------------------------|------------------------------|-----------------------------|
| <p>1.</p> $\begin{array}{r} 3 \text{ R}1 \\ 5 \overline{)16} \\ \underline{-15} \\ 1 \end{array}$ | <p>2.</p> $2 \overline{)11}$ | <p>3.</p> $3 \overline{)13}$ | <p>4.</p> $2 \overline{)19}$ | <p>5.</p> $2 \overline{)9}$ |
|---|------------------------------|------------------------------|------------------------------|-----------------------------|

Practice

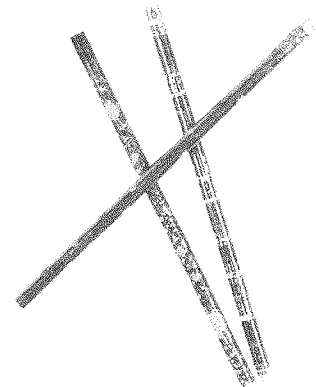
Divide.

| | | | | |
|---------------------------|--------------------------|---------------------------|---------------------------|---------------------------|
| 1. $4 \overline{)13}$ | 2. $6 \overline{)37}$ | 3. $2 \overline{)11}$ | 4. $7 \overline{)50}$ | 5. $9 \overline{)46}$ |
| 6. $3 \overline{)19}$ | 7. $8 \overline{)25}$ | 8. $5 \overline{)36}$ | 9. $9 \overline{)64}$ | 10. $6 \overline{)49}$ |
| 11. $6 \overline{)13}$ | 12. $2 \overline{)7}$ | 13. $4 \overline{)29}$ | 14. $7 \overline{)43}$ | 15. $2 \overline{)19}$ |

Using Math

Ellen bought 3 pencils and paid for them with a quarter. She got 1¢ in change. How much did each pencil cost?

Each pencil cost _____¢.





Dividing Tens and Hundreds

You know that $8 \text{ ones} \div 2 \text{ ones} = 4 \text{ ones}$.

$$\begin{array}{r} 4 \\ 2 \overline{)8} \end{array}$$

Now you can find the answer to division problems with tens and hundreds.

| tens | hundreds |
|--|--|
| Divide 80 by 2. Think $80 = 8 \text{ tens}$. $\begin{array}{r} 4 \text{ tens} \\ 2 \overline{)8 \text{ tens}} \end{array}$ or $\begin{array}{r} 40 \\ 2 \overline{)80} \end{array}$ | Divide 800 by 2. Think $800 = 8 \text{ hundreds}$. $\begin{array}{r} 4 \text{ hundreds} \\ 2 \overline{)8 \text{ hundreds}} \end{array}$ or $\begin{array}{r} 400 \\ 2 \overline{)800} \end{array}$ |
| Divide 60 by 3. Think $60 = 6 \text{ tens}$. $\begin{array}{r} 2 \text{ tens} \\ 3 \overline{)6 \text{ tens}} \end{array}$ or $\begin{array}{r} 20 \\ 3 \overline{)60} \end{array}$ | Divide 600 by 3. Think $600 = 6 \text{ hundreds}$. $\begin{array}{r} 2 \text{ hundreds} \\ 3 \overline{)6 \text{ hundreds}} \end{array}$ or $\begin{array}{r} 200 \\ 3 \overline{)600} \end{array}$ |

Guided Practice

Divide.

| | | | |
|---|---|---|---|
| 1. $\begin{array}{r} 3 \text{ tens} \\ 2 \overline{)6 \text{ tens}} \end{array}$ | 2. $\begin{array}{r} 3 \overline{)9 \text{ tens}} \end{array}$ | 3. $\begin{array}{r} 2 \overline{)8 \text{ hundreds}} \end{array}$ | 4. $\begin{array}{r} 3 \overline{)6 \text{ hundreds}} \end{array}$ |
| 5. $\begin{array}{r} 7 \overline{)700} \end{array}$ | 6. $\begin{array}{r} 2 \overline{)60} \end{array}$ | 7. $\begin{array}{r} 5 \overline{)50} \end{array}$ | 8. $\begin{array}{r} 4 \overline{)200} \end{array}$ |

Practice

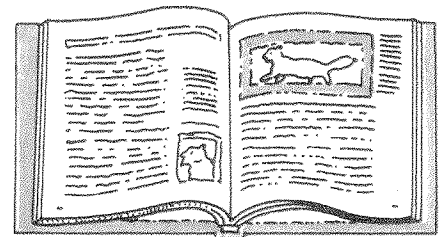
Divide.

| | | | | |
|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 1. $2 \overline{)40}$ | 2. $2 \overline{)400}$ | 3. $5 \overline{)500}$ | 4. $3 \overline{)90}$ | 5. $2 \overline{)80}$ |
| 6. $6 \overline{)600}$ | 7. $4 \overline{)40}$ | 8. $8 \overline{)80}$ | 9. $3 \overline{)30}$ | 10. $4 \overline{)80}$ |
| 11. $3 \overline{)300}$ | 12. $4 \overline{)400}$ | 13. $2 \overline{)60}$ | 14. $2 \overline{)600}$ | 15. $2 \overline{)800}$ |
| 16. $5 \overline{)400}$ | 17. $7 \overline{)70}$ | 18. $6 \overline{)300}$ | 19. $4 \overline{)800}$ | 20. $3 \overline{)900}$ |

Using Math

Craig bought a book with 90 pages in it. The book had 9 equal chapters. How many pages are in each chapter?

There are _____ pages in each chapter.





2-Digit Quotients

You know how to divide 60 by 2. Now you will learn to divide 68 by 2.

| | |
|---|--|
| <p>Step 1 Divide the tens.</p> <p>Divide 6 by 2.</p> $6 \div 2 = 3$ <p>Multiply 3 times 2.</p> $3 \times 2 = 6$ <p>Subtract 6 from 6.</p> $6 - 6 = 0$ | <p>Step 2 Divide the ones.</p> <p>► Bring down the 8 ones.</p> <p>Divide 8 by 2.</p> $8 \div 2 = 4$ <p>Multiply 4 times 2.</p> $4 \times 2 = 8$ <p>Subtract 8 from 8.</p> $8 - 8 = 0$ |
|---|--|

Guided Practice

Divide.

| | | | | |
|--|--------------------|--------------------|--------------------|--------------------|
| 1. | 2. | 3. | 4. | 5. |
| $\begin{array}{r} 12 \\ 2 \overline{)24} \\ \underline{-2} \\ 04 \\ \underline{-4} \\ 0 \end{array}$ | $3 \overline{)66}$ | $4 \overline{)48}$ | $5 \overline{)55}$ | $6 \overline{)60}$ |

Practice

Divide.

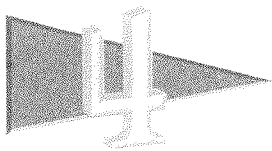
| | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 1. $2 \overline{)26}$ | 2. $3 \overline{)93}$ | 3. $5 \overline{)50}$ | 4. $4 \overline{)44}$ | 5. $2 \overline{)48}$ |
| 6. $4 \overline{)84}$ | 7. $8 \overline{)88}$ | 8. $2 \overline{)22}$ | 9. $2 \overline{)64}$ | 10. $3 \overline{)39}$ |
| 11. $7 \overline{)70}$ | 12. $4 \overline{)88}$ | 13. $3 \overline{)36}$ | 14. $9 \overline{)90}$ | 15. $3 \overline{)63}$ |

Using Math

Yoshi runs 2 miles every day. How many days will it take her to run 24 miles?

It will take her _____ days.





2-Digit Quotients with Remainders

When 36 is divided by 3, there is no remainder.

$$\begin{array}{r} 12 \\ 3 \overline{)36} \end{array}$$

When 37 is divided by 3, there is a remainder of 1.

Step 1 Divide the tens.

$$\begin{array}{lcl} \text{Divide} & 3 \div 3 & 1 \\ \text{Multiply} & 1 \times 3 & 3 \overline{)37} \\ & & - 3 \\ \text{Subtract} & 3 - 3 & \underline{} 0 \end{array}$$

Step 2 Divide the ones.

$$\begin{array}{lcl} \text{Bring down the 7 ones.} & & 12 \\ \text{Divide} & 7 \div 3 & 3 \overline{)37} \\ \text{Multiply} & 2 \times 3 & - 3 \\ \text{Subtract} & 7 - 6 & \underline{} 07 \\ & & - 6 \\ & & \underline{} 1 \end{array}$$

Remember to write the remainder like this: $\begin{array}{r} 12 \text{ R}1 \\ 3 \overline{)37} \end{array}$

Guided Practice

Divide.

| | | | | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|
| 1. $\begin{array}{r} 12 \text{ R}1 \\ 2 \overline{)25} \\ - 2 \\ \underline{} 05 \\ - 4 \\ \underline{} 1 \end{array}$ | 2. $3 \overline{)34}$ | 3. $4 \overline{)87}$ | 4. $3 \overline{)64}$ | 5. $4 \overline{)46}$ |
|---|--------------------------|--------------------------|--------------------------|--------------------------|

Practice

Divide.

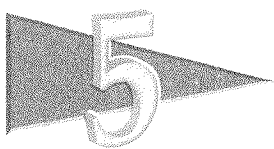
| | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 1. $3 \overline{)64}$ | 2. $4 \overline{)87}$ | 3. $2 \overline{)85}$ | 4. $5 \overline{)56}$ | 5. $3 \overline{)67}$ |
| 6. $2 \overline{)29}$ | 7. $6 \overline{)68}$ | 8. $2 \overline{)65}$ | 9. $4 \overline{)89}$ | 10. $2 \overline{)23}$ |
| 11. $7 \overline{)78}$ | 12. $2 \overline{)87}$ | 13. $8 \overline{)89}$ | 14. $4 \overline{)85}$ | 15. $4 \overline{)49}$ |

Using Math

There are 85 people waiting at the bus station. A bus can hold 42 people. Can 2 buses carry all the people?

Ring your answer. Yes No





2-Digit Quotients with Remainders

Divide 91 by 4. $4 \overline{)91}$

Step 1 Divide the tens.

Divide $9 \div 4 = 2$

Multiply $2 \times 4 = 8$

Subtract $9 - 8 = 1$

$$\begin{array}{r} 4 \overline{)91} \\ \underline{-8} \\ 1 \end{array}$$

Is 1 less than 4? Yes.

Go on to Step 2.

Step 2 Divide the ones.

Bring down the 1. $\begin{array}{r} 22 \\ 4 \overline{)91} \end{array}$

Divide $11 \div 4 = 2$

Multiply $2 \times 4 = 8$

Subtract $11 - 8 = 3$

$$\begin{array}{r} 22 \\ 4 \overline{)91} \\ \underline{-8} \\ 11 \\ \underline{-8} \\ 3 \end{array}$$

$22 \text{ R}3$

Remember to write the remainder like this: $4 \overline{)91}$

Guided Practice

Divide.

| | | | | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|
| 1. $\begin{array}{r} 14 \text{ R}3 \\ 4 \overline{)59} \\ \underline{-4} \\ 19 \\ \underline{-16} \\ 3 \end{array}$ | 2. $5 \overline{)83}$ | 3. $3 \overline{)86}$ | 4. $6 \overline{)95}$ | 5. $2 \overline{)75}$ |
|--|--------------------------|--------------------------|--------------------------|--------------------------|

Practice

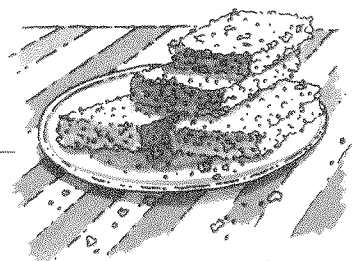
Divide.

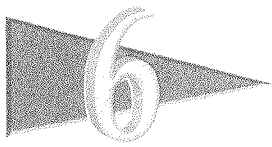
| | | | | |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 1. $3 \overline{)43}$ | 2. $4 \overline{)51}$ | 3. $5 \overline{)86}$ | 4. $6 \overline{)89}$ | 5. $7 \overline{)99}$ |
| 6. $3 \overline{)76}$ | 7. $4 \overline{)97}$ | 8. $8 \overline{)99}$ | 9. $2 \overline{)91}$ | 10. $3 \overline{)89}$ |
| 11. $3 \overline{)82}$ | 12. $5 \overline{)89}$ | 13. $3 \overline{)68}$ | 14. $4 \overline{)63}$ | 15. $6 \overline{)98}$ |

Using Math

Mr. Simms is baking 74 granola squares for his class. Each student will get 4. How many students are in the class? _____

How many granola squares will be left for Mr. Simms? _____





2-Digit Quotients with Remainders

Divide 195 by 4. $4 \overline{)195}$

Can you divide 1 by 4? No.

Think $195 = 1$ hundred 9 tens 5 ones or 19 tens 5 ones.

Can you divide 19 tens by 4? Yes.

Step 1 Divide the tens.

Divide 19 tens by 4.

Remember to place the 4 over the 9. This is the tens' place.

$$\begin{array}{r} 4 \\ 4 \overline{)195} \\ \underline{-16} \\ 3 \end{array}$$

Multiply 4×4

Subtract $19 - 16$

Is 3 less than 4? Yes.

Go on to Step 2.

Step 2 Divide the ones.

Bring down the 5.

48 R3

Divide $35 \div 4$

Multiply 8×4

Subtract $35 - 32$

Write R3 with the

quotient.

$$\begin{array}{r} 48 \text{ R}3 \\ 4 \overline{)195} \\ \underline{-16} \\ 35 \\ \underline{-32} \\ 3 \end{array}$$

Guided Practice

Divide.

| | | | |
|--|---------------------|---------------------|---------------------|
| 1. | 2. | 3. | 4. |
| $\begin{array}{r} 66 \text{ R}2 \\ 4 \overline{)266} \\ \underline{-24} \\ 26 \\ \underline{-24} \\ 2 \end{array}$ | $3 \overline{)235}$ | $7 \overline{)376}$ | $6 \overline{)411}$ |

Practice

➤ Divide.

| | | | |
|---------------------------|----------------------------|----------------------------|----------------------------|
| 1. $6 \overline{)169}$ | 2. $5 \overline{)243}$ | 3. $3 \overline{)172}$ | 4. $7 \overline{)388}$ |
| 5. $8 \overline{)475}$ | 6. $8 \overline{)578}$ | 7. $4 \overline{)391}$ | 8. $3 \overline{)268}$ |
| 9. $5 \overline{)422}$ | 10. $7 \overline{)265}$ | 11. $8 \overline{)734}$ | 12. $9 \overline{)829}$ |

Problem Solving

➤ Ring the correct problem.

Chet had 3 packages of gum.
Each package had 6 pieces of gum.
How many pieces of gum in all
did Chet have?

$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \text{ pieces} \end{array}$$

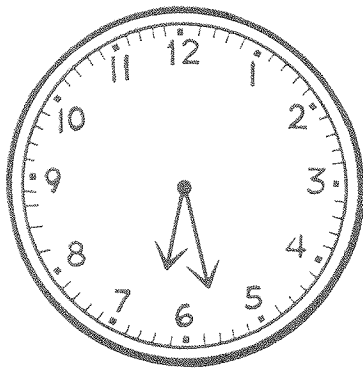
$$\begin{array}{r} 2 \text{ pieces} \\ 3 \overline{)6} \end{array}$$



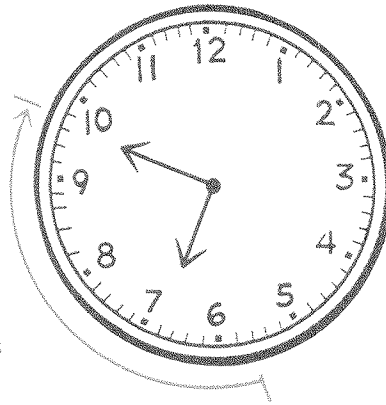
More Elapsed Time

Carlos is baking muffins. He puts them in the oven at 6:28 P.M. The muffins must bake for 20 minutes. What time will they be done?

Start Time
6:28



20
minutes



End Time
6:48

The muffins will be done at 6:48 P.M.

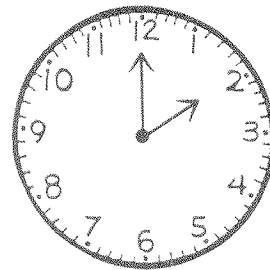
Guided Practice

Write each answer.

1. The race began at 2:00 P.M.
The winner finished the race at 2:32 P.M.
How many minutes did the winner run?

32 minutes

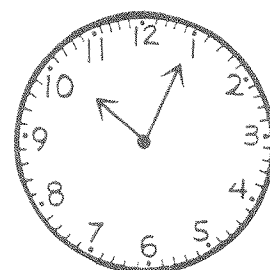
Start Time



2. It takes Betty 17 minutes to ride to Carol's house on her bicycle.
She left at 10:05 P.M.

What time will she get there? _____ P.M.

Start Time



Practice

➤ Write each answer.

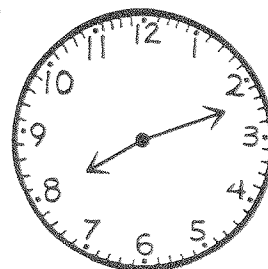
1. The bus stopped at Grove Street at 8:12 P.M.

Start Time

It arrived at Mason Road at 8:34 P.M.

How many minutes did it take the bus to get from Grove Street to Mason Road?

_____ minutes

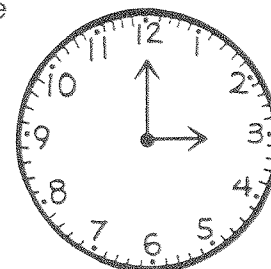


2. Band practice starts at 3:00 P.M.

Start Time

It will last 55 minutes. What time will practice end?

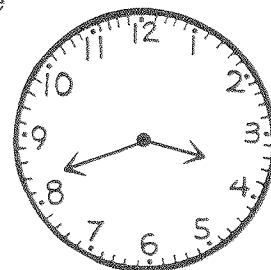
_____ P.M.



3. It is now 3:42 P.M. Mike's favorite TV show begins at 4:00 P.M. How many minutes will go by before Mike's show begins?

Start Time

_____ minutes

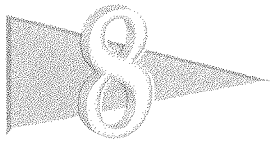


Using Math

➤ What time do you leave for school? _____

How many minutes does it take to get there? _____

What time do you get to school? _____



Problem Solving

Choose an Operation

Erin had 200 pennies.
She put them into 4 rolls.
How many pennies were in each roll?

$$\begin{array}{r} 200 \\ \times 4 \\ \hline 800 \end{array} \text{ pennies}$$

$$\begin{array}{r} 50 \text{ pennies} \\ 4 \overline{) 200} \end{array}$$

Erin divided because
she separated the pennies into groups.

Multiply to combine groups.
Divide to separate groups.



Guided Practice

Ring the correct problem.

1. Amelia sold 24 boxes of cards.
Each box had 6 cards.
How many cards in all
did Amelia sell?

$$\begin{array}{r} 24 \\ \times 6 \\ \hline 144 \end{array} \text{ cards}$$

$$\begin{array}{r} 4 \text{ cards} \\ 6 \overline{) 24} \end{array}$$

Amelia multiplied because
she put the groups of cards together.

2. Hal's book has 120 pages.
Hal reads 8 pages each day.
How many days will it take
for Hal to read his book?

$$\begin{array}{r} 120 \\ \times 8 \\ \hline 960 \end{array} \text{ days}$$

$$\begin{array}{r} 15 \text{ days} \\ 8 \overline{) 120} \end{array}$$

Practice

Ring the correct problem.

-
1. Mr. Polk packed 6 lunches.

He put 3 cookies in each lunch.

How many cookies in all

did Mr. Polk pack?

$$\begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array}$$

cookies

$$\begin{array}{r} 2 \\ 3 \overline{)6} \end{array}$$

cookies

-
2. Kelly works in a grocery store.

She unpacked 6 cases of soup.

Each case had 24 cans. How many
cans in all did Kelly unpack?

$$\begin{array}{r} 24 \\ \times 6 \\ \hline 144 \end{array}$$

cans

$$\begin{array}{r} 4 \\ 6 \overline{)24} \end{array}$$

cans

-
3. Tim packed 100 grapes for a picnic.

He put 10 grapes in each package.

How many packages

did Tim make?

$$\begin{array}{r} 100 \\ \times 10 \\ \hline 1,000 \end{array}$$

packages

$$\begin{array}{r} 10 \\ 10 \overline{)100} \end{array}$$

packages

-
4. Taizo brought 36 colas to a picnic.

The colas were in 6 pack cartons.

How many cartons of colas

did Taizo bring?

$$\begin{array}{r} 36 \\ \times 6 \\ \hline 216 \end{array}$$

cartons

$$\begin{array}{r} 6 \\ 6 \overline{)36} \end{array}$$

cartons

-
5. Ms. Andrews' class played softball.

They made 2 equal teams.

There were 22 students playing.

How many students were on
each team?

$$\begin{array}{r} 22 \\ \times 2 \\ \hline 44 \end{array}$$

students

$$\begin{array}{r} 11 \\ 2 \overline{)22} \end{array}$$

students

CHAPTER 6 Review

Divide.

| | | | |
|--|-------------------------------|-------------------------------|-------------------------------|
| <p>pages 120–121</p> <p>1.</p> $2 \overline{)17}$ | <p>2.</p> $3 \overline{)10}$ | <p>3.</p> $5 \overline{)26}$ | <p>4.</p> $7 \overline{)15}$ |
| <p>pages 122–123</p> <p>5.</p> $2 \overline{)40}$ | <p>6.</p> $3 \overline{)600}$ | <p>7.</p> $4 \overline{)400}$ | <p>8.</p> $4 \overline{)80}$ |
| <p>pages 124–125</p> <p>9.</p> $2 \overline{)42}$ | <p>10.</p> $3 \overline{)36}$ | <p>11.</p> $4 \overline{)44}$ | <p>12.</p> $2 \overline{)28}$ |
| <p>pages 126–127</p> <p>13.</p> $3 \overline{)34}$ | <p>14.</p> $4 \overline{)45}$ | <p>15.</p> $2 \overline{)29}$ | <p>16.</p> $3 \overline{)67}$ |

CHAPTER 6 Review

Divide.

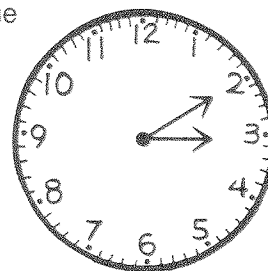
| | | | |
|---|--------------------------------|--------------------------------|--------------------------------|
| <p>pages 128–129</p> <p>17.</p> $3 \overline{)43}$ | <p>18.</p> $8 \overline{)92}$ | <p>19.</p> $4 \overline{)54}$ | <p>20.</p> $6 \overline{)75}$ |
| <p>pages 130–131</p> <p>21.</p> $4 \overline{)191}$ | <p>22.</p> $3 \overline{)235}$ | <p>23.</p> $8 \overline{)269}$ | <p>24.</p> $6 \overline{)519}$ |

Write each answer. pages 132–133

25. It is now 3:10. Louis is meeting his friends at the park at 3:30. How many minutes does Louis have left before he meets his friends?

He has _____ minutes left.

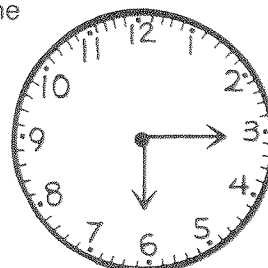
Start Time



26. It is now 6:15 P.M. Tammy's father said dinner will be ready in 25 minutes. What time will dinner be ready?

Dinner will be ready at _____ P.M.

Start Time



CHAPTER 6 Review

Ring the correct problem.

pages 134–135

27. Ryan bought 2 pens.

Each pen cost 18¢.

How much in all

did Ryan spend?

$$\begin{array}{r} 18\text{¢} \\ \times 2 \\ \hline 36\text{¢} \end{array}$$

$$\begin{array}{r} 9\text{¢} \\ 2 \overline{)18\text{¢}} \end{array}$$

28. Jordi had a book with 112 pages.

He read 8 pages each day.

How many days did it take him

to read the whole book?

$$\begin{array}{r} 112 \\ \times 8 \\ \hline 896 \text{ days} \end{array}$$

$$\begin{array}{r} 14 \text{ days} \\ 8 \overline{)112} \end{array}$$

29. Stef drove 55 miles each hour.

How many miles did she drive

in 3 hours?

$$\begin{array}{r} 55 \\ \times 3 \\ \hline 165 \text{ miles} \end{array}$$

$$\begin{array}{r} 18 \text{ R } 1 \text{ miles} \\ 3 \overline{)55} \end{array}$$

30. Ying's school had 424 students.

There were 8 students in each activity group.

How many groups were there?

$$\begin{array}{r} 424 \\ \times 8 \\ \hline 3,392 \text{ groups} \end{array}$$

$$\begin{array}{r} 53 \text{ groups} \\ 8 \overline{)424} \end{array}$$

31. Ms. Sandoz set up 7 rows of chairs

for the school play. She put

14 chairs in each row. How

many chairs did Ms. Sandoz set up?

$$\begin{array}{r} 14 \\ \times 7 \\ \hline 98 \text{ chairs} \end{array}$$

$$\begin{array}{r} 2 \text{ chairs} \\ 7 \overline{)14} \end{array}$$

CHAPTER 6 Test

Divide.

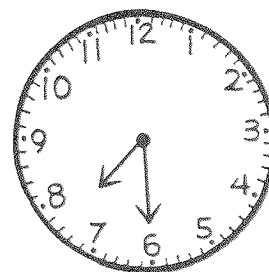
| | | | |
|--------------------------|---------------------------|----------------------------|----------------------------|
| 1. $3 \overline{)19}$ | 2. $5 \overline{)31}$ | 3. $8 \overline{)80}$ | 4. $6 \overline{)600}$ |
| 5. $3 \overline{)39}$ | 6. $2 \overline{)24}$ | 7. $4 \overline{)49}$ | 8. $3 \overline{)67}$ |
| 9. $6 \overline{)74}$ | 10. $3 \overline{)49}$ | 11. $6 \overline{)256}$ | 12. $5 \overline{)369}$ |

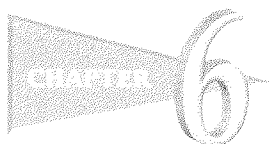
Write the answer.

13. It is now 7:30 P.M. The movie will end in 15 minutes. What time will the movie end?

The movie will end at _____ P.M.

Start Time





Test

Ring the correct problem.

14. Jerry gave a bag of spice drops to 6 friends. There were 72 spice drops in the bag. How many spice drops did each friend get?

$$\begin{array}{r} 72 \\ \times 6 \\ \hline 432 \end{array}$$

spice drops

$$\begin{array}{r} 12 \text{ spice drops} \\ 6 \overline{)72} \end{array}$$

15. An address book had 156 pages. There were spaces for 4 addresses on each page. How many spaces in all were there?

$$\begin{array}{r} 156 \\ \times 4 \\ \hline 624 \end{array}$$

spaces

$$\begin{array}{r} 39 \text{ spaces} \\ 4 \overline{)156} \end{array}$$

16. Jasmine drove 42 miles each hour. How many miles did she drive in 6 hours?

$$\begin{array}{r} 42 \\ \times 6 \\ \hline 252 \end{array}$$

miles

$$\begin{array}{r} 7 \text{ miles} \\ 6 \overline{)42} \end{array}$$

17. Music City Store had 152 new tapes. They put an equal number on 8 shelves. How many new tapes are on each shelf?

$$\begin{array}{r} 152 \\ \times 8 \\ \hline 1,216 \end{array}$$

new tapes

$$\begin{array}{r} 19 \text{ new tapes} \\ 8 \overline{)152} \end{array}$$

18. Chelsea had 16 flower seeds. She planted the same number of seeds in 4 flower pots. How many seeds did she plant in each pot?

$$\begin{array}{r} 16 \\ \times 4 \\ \hline 64 \end{array}$$

seeds

$$\begin{array}{r} 4 \text{ seeds} \\ 4 \overline{)16} \end{array}$$

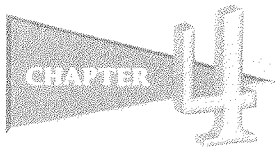
CHAPTER 4

➤ Multiply.

| | | | |
|--|---|---|---|
| <p>pages 76–79</p> <p>1.</p> $\begin{array}{r} 10 \\ \times 8 \\ \hline \end{array}$ | <p>2.</p> $\begin{array}{r} 200 \\ \times 4 \\ \hline \end{array}$ | <p>3.</p> $\begin{array}{r} 21 \\ \times 3 \\ \hline \end{array}$ | <p>4.</p> $\begin{array}{r} 42 \\ \times 2 \\ \hline \end{array}$ |
| <p>pages 80–83</p> <p>5.</p> $\begin{array}{r} 16 \\ \times 3 \\ \hline \end{array}$ | <p>6.</p> $\begin{array}{r} 27 \\ \times 2 \\ \hline \end{array}$ | <p>7.</p> $\begin{array}{r} 68 \\ \times 3 \\ \hline \end{array}$ | <p>8.</p> $\begin{array}{r} 95 \\ \times 5 \\ \hline \end{array}$ |
| <p>pages 84–85</p> <p>9.</p> $\begin{array}{r} 243 \\ \times 4 \\ \hline \end{array}$ | <p>10.</p> $\begin{array}{r} 152 \\ \times 6 \\ \hline \end{array}$ | <p>11.</p> $\begin{array}{r} 371 \\ \times 2 \\ \hline \end{array}$ | <p>12.</p> $\begin{array}{r} 273 \\ \times 3 \\ \hline \end{array}$ |
| <p>pages 86–87</p> <p>13.</p> $\begin{array}{r} 263 \\ \times 7 \\ \hline \end{array}$ | <p>14.</p> $\begin{array}{r} 152 \\ \times 9 \\ \hline \end{array}$ | <p>15.</p> $\begin{array}{r} 403 \\ \times 5 \\ \hline \end{array}$ | <p>16.</p> $\begin{array}{r} 619 \\ \times 4 \\ \hline \end{array}$ |

➤ Ring A.M. or P.M. pages 88–89

- | | | |
|---|------|------|
| 17. Pedro eats breakfast at 7:30. | A.M. | P.M. |
| 18. Julia goes to ballet class at 4:00. | A.M. | P.M. |
| 19. School gets out at 3:30. | A.M. | P.M. |
| 20. Michael does his homework at 5:00. | A.M. | P.M. |



Round to the nearest ten.

Estimate to solve.

pages 90–91

21. The park had 42 visitors. Each visitor got 2 free movie passes. About how many passes were given away?

$$\begin{array}{r} 42 \\ \times 2 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 2 \\ \hline \end{array}$$

about passes

22. There are 8 flights of steps going up to the falls. Each flight has 26 steps. About how many steps in all are there?

$$\begin{array}{r} 26 \\ \times 8 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 8 \\ \hline \end{array}$$

about steps

23. A movie was shown 6 times a day. The movie is 17 minutes long. About how many minutes was the movie projector running in a day?

$$\begin{array}{r} 17 \\ \times 6 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 6 \\ \hline \end{array}$$

about minutes

24. The snack bar is open 85 days a year. Each day it is open 3 hours. About how many hours is the snack bar open in a year?

$$\begin{array}{r} 85 \\ \times 3 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 3 \\ \hline \end{array}$$

about hours

25. On Tuesday 7 bus loads of people visited the park. Each bus held 47 people. About how many people rode the bus to the park on Tuesday?

$$\begin{array}{r} 47 \\ \times 7 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 7 \\ \hline \end{array}$$

about people

26. There were 4 tour guides. Each guide led a group of 39 people. About how many people were with the tour guides?

$$\begin{array}{r} 39 \\ \times 4 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 4 \\ \hline \end{array}$$

about people

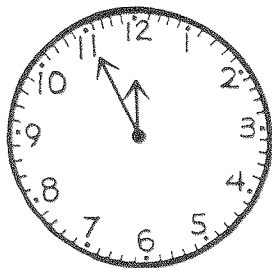
CHAPTER 5

Divide.

| | | | |
|--|-------------------------------|-------------------------------|-------------------------------|
| <p>pages 98–101</p> <p>1.</p> $5 \overline{)25}$ | <p>2.</p> $3 \overline{)27}$ | <p>3.</p> $6 \overline{)24}$ | <p>4.</p> $4 \overline{)16}$ |
| <p>pages 102–103</p> <p>5.</p> $7 \overline{)21}$ | <p>6.</p> $7 \overline{)42}$ | <p>7.</p> $7 \overline{)14}$ | <p>8.</p> $7 \overline{)63}$ |
| <p>pages 104–105</p> <p>9.</p> $8 \overline{)56}$ | <p>10.</p> $8 \overline{)40}$ | <p>11.</p> $8 \overline{)24}$ | <p>12.</p> $8 \overline{)72}$ |
| <p>pages 106–109</p> <p>13.</p> $9 \overline{)27}$ | <p>14.</p> $9 \overline{)45}$ | <p>15.</p> $9 \overline{)18}$ | <p>16.</p> $9 \overline{)81}$ |

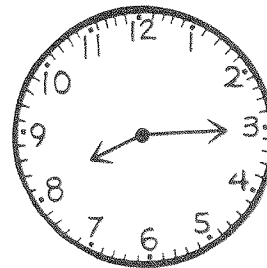
What time will it be? pages 110–111

17.



In 5 minutes it will be _____.

18.



In 30 minutes it will be _____.

CHAPTER 5

Ring the correct problem.

pages 112–113

19. A van held 15 people.

It had 5 seats. How many people can sit in each seat?

$$\begin{array}{r} 15 \\ \times 5 \\ \hline 75 \end{array}$$

75 people

$$\begin{array}{r} 3 \text{ people} \\ 5 \overline{)15} \end{array}$$

20. Mei bought 2 packs of gum.

Each pack had 6 pieces of gum. How many pieces of gum in all did Mei have?

$$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$$

12 pieces

$$\begin{array}{r} 3 \text{ pieces} \\ 2 \overline{)6} \end{array}$$

21. Luis had 30 minutes to finish

his math problems. He had 6 problems. How many minutes did Luis spend on each problem?

$$\begin{array}{r} 30 \\ \times 6 \\ \hline 180 \end{array}$$

180 minutes

$$\begin{array}{r} 5 \text{ minutes} \\ 6 \overline{)30} \end{array}$$

22. Ali made 2 pancakes for each person in her family. There are 6 people in Ali's family. How many pancakes did she make?

$$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$$

12 pancakes

$$\begin{array}{r} 3 \text{ pancakes} \\ 2 \overline{)6} \end{array}$$

23. Sacho bought 3 pieces of candy for each friend. He had 12 friends. How many pieces of candy did Sacho buy?

$$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$$

36 pieces

$$\begin{array}{r} 4 \text{ pieces} \\ 3 \overline{)12} \end{array}$$

CHAPTER 6

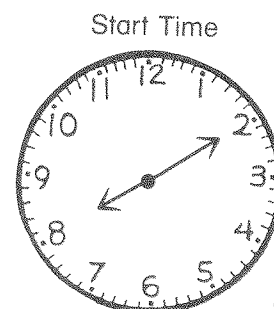
Divide.

| | | | |
|---|-------------------------------|--------------------------------|--------------------------------|
| <p>pages 120–123</p> <p>1.</p> $4 \overline{)25}$ | <p>2.</p> $3 \overline{)13}$ | <p>3.</p> $3 \overline{)60}$ | <p>4.</p> $7 \overline{)700}$ |
| <p>pages 124–127</p> <p>5.</p> $4 \overline{)44}$ | <p>6.</p> $3 \overline{)36}$ | <p>7.</p> $2 \overline{)83}$ | <p>8.</p> $4 \overline{)49}$ |
| <p>pages 128–131</p> <p>9.</p> $5 \overline{)66}$ | <p>10.</p> $4 \overline{)87}$ | <p>11.</p> $8 \overline{)387}$ | <p>12.</p> $3 \overline{)245}$ |

Write the answer. pages 132–133

13. Mr. Clark takes the train to work. He gets on the train at 8:10 P.M. The train ride takes 40 minutes. What time does he get off the train?

He gets off the train at _____ P.M.



CHAPTER 6

Ring the correct problem.

pages 134–135

14. A bag of cookies had 98 cookies.
Ms. Brown bought 2 bags of
cookies. How many cookies in all
did Ms. Brown buy?

$$\begin{array}{r} 98 \\ \times 2 \\ \hline 196 \end{array}$$

cookies

$$\begin{array}{r} 49 \\ 2 \overline{)98} \end{array}$$

cookies

15. Matt had 84 cards.
He put them in 6 equal rows.
How many rows of cards
did Matt have?

$$\begin{array}{r} 84 \\ \times 6 \\ \hline 504 \end{array}$$

rows

$$\begin{array}{r} 14 \\ 6 \overline{)84} \end{array}$$

rows

16. Paul had 268 tomatoes. He put
them in packages of 4 tomatoes.
How many packages of tomatoes
did Paul have?

$$\begin{array}{r} 268 \\ \times 4 \\ \hline 1,072 \end{array}$$

packages

$$\begin{array}{r} 67 \\ 4 \overline{)268} \end{array}$$

packages

17. A factory made wheels for roller
skates. Each skate had 4 wheels.
How many wheels did they need
for 300 skates?

$$\begin{array}{r} 300 \\ \times 4 \\ \hline 1,200 \end{array}$$

wheels

$$\begin{array}{r} 75 \\ 4 \overline{)300} \end{array}$$

wheels

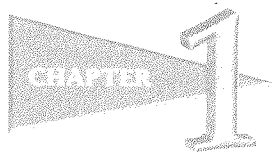
18. Jan had 6 boxes of greeting cards.
There were 12 cards in each box.
How many cards in all
did Jan have?

$$\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$$

cards

$$\begin{array}{r} 2 \\ 6 \overline{)12} \end{array}$$

cards



Extra Practice

Write each missing number. pages 2–3

1. $64 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

2. $75 = \underline{\hspace{1cm}}$ tens $\underline{\hspace{1cm}}$ ones

Write each number in standard form. pages 4–5

3. $6,000 + 700 + 50 + 9 = \underline{\hspace{2cm}}$

4. $1,000 + 300 + 80 = \underline{\hspace{2cm}}$

Write the value of each underlined digit. pages 6–7

5. $8\underline{3},622$ $\underline{\hspace{2cm}}$

6. $\underline{3}6,521$ $\underline{\hspace{2cm}}$

Compare. Ring $>$ or $<$. pages 8–9

7. $175 \begin{matrix} > \\ < \end{matrix} 157$

8. $3,825 \begin{matrix} > \\ < \end{matrix} 8,352$

9. $63,541 \begin{matrix} > \\ < \end{matrix} 63,632$

Round each number to the nearest ten. pages 10–13

10. $11 \underline{\hspace{1cm}}$

11. $26 \underline{\hspace{1cm}}$

12. $185 \underline{\hspace{1cm}}$

Round each number to the nearest hundred. pages 12–13

13. $819 \underline{\hspace{1cm}}$

14. $290 \underline{\hspace{1cm}}$

15. $4,679 \underline{\hspace{1cm}}$

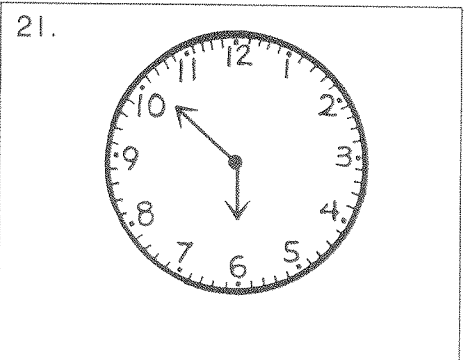
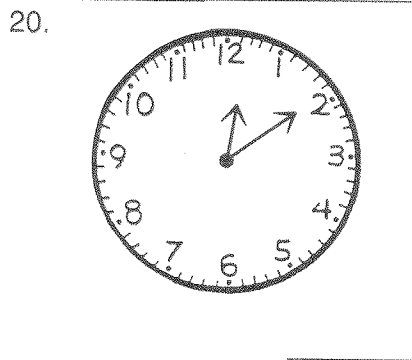
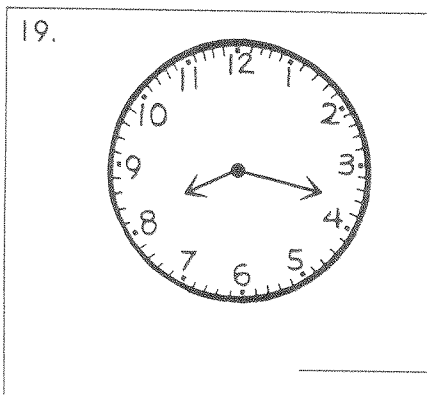
Round each number to the nearest thousand. pages 12–13

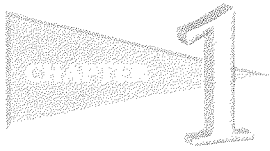
16. $2,436 \underline{\hspace{1cm}}$

17. $6,555 \underline{\hspace{1cm}}$

18. $36,213 \underline{\hspace{1cm}}$

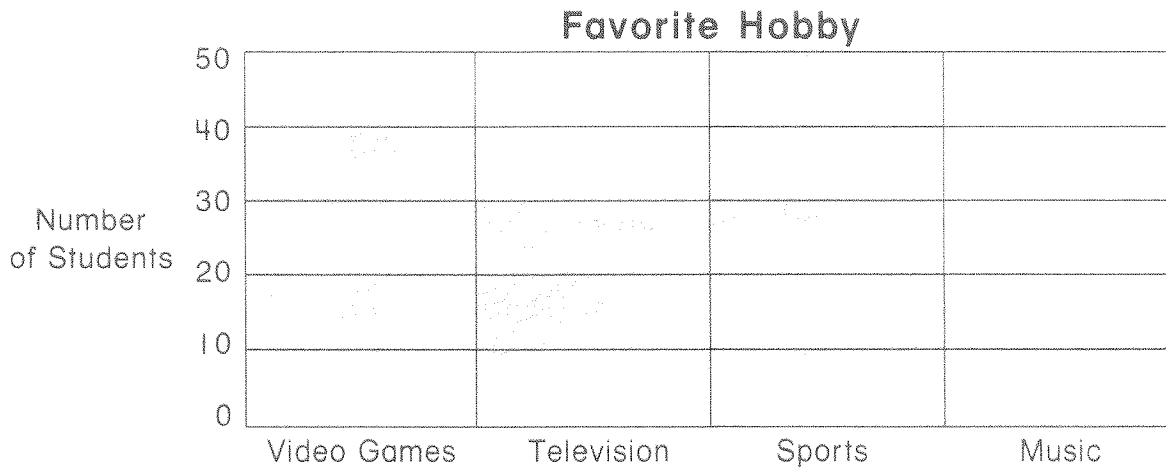
Write each time. pages 14–15





Extra Practice

Mr. Lock's class asked students to name their favorite hobbies. They used their answers to make this graph.



Look at the graph.

Write how many students named the hobby.

pages 16–17

22. _____ Television

23. _____ Music

Use the graph to answer.

24. What hobby was named
most? _____

25. What hobby was named
least? _____

26. How many more students named
sports than video games?

more students

27. How many more students
named television than music?

more students

CHAPTER 2

Extra Practice

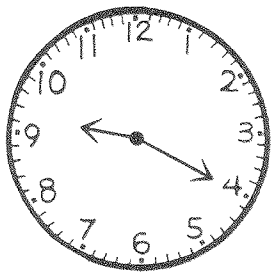
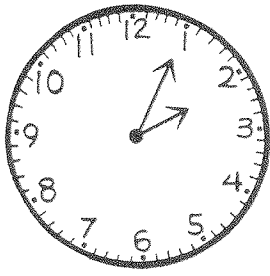
➤ Add. pages 24–29

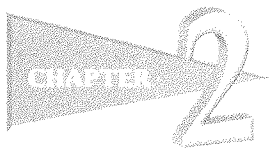
| | | | |
|---|---|---|---|
| 1. $\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$ | 2. $\begin{array}{r} 9 \\ + 6 \\ \hline \end{array}$ | 3. $\begin{array}{r} 37 \\ + 12 \\ \hline \end{array}$ | 4. $\begin{array}{r} 76 \\ + 16 \\ \hline \end{array}$ |
| 5. $\begin{array}{r} 37 \\ + 26 \\ \hline \end{array}$ | 6. $\begin{array}{r} 578 \\ + 164 \\ \hline \end{array}$ | 7. $\begin{array}{r} 366 \\ + 249 \\ \hline \end{array}$ | 8. $\begin{array}{r} 4,525 \\ + 734 \\ \hline \end{array}$ |

➤ Subtract. pages 30–35

| | | | |
|--|--|--|--|
| 9. $\begin{array}{r} 18 \\ - 9 \\ \hline \end{array}$ | 10. $\begin{array}{r} 15 \\ - 8 \\ \hline \end{array}$ | 11. $\begin{array}{r} 36 \\ - 21 \\ \hline \end{array}$ | 12. $\begin{array}{r} 74 \\ - 46 \\ \hline \end{array}$ |
| 13. $\begin{array}{r} 91 \\ - 74 \\ \hline \end{array}$ | 14. $\begin{array}{r} 482 \\ - 191 \\ \hline \end{array}$ | 15. $\begin{array}{r} 577 \\ - 368 \\ \hline \end{array}$ | 16. $\begin{array}{r} 1,425 \\ - 642 \\ \hline \end{array}$ |

➤ Write each time two ways. pages 36–37

| | |
|--|--|
| 17.  _____ or _____ minutes after _____ | 18.  _____ or _____ minutes after _____ |
|--|--|



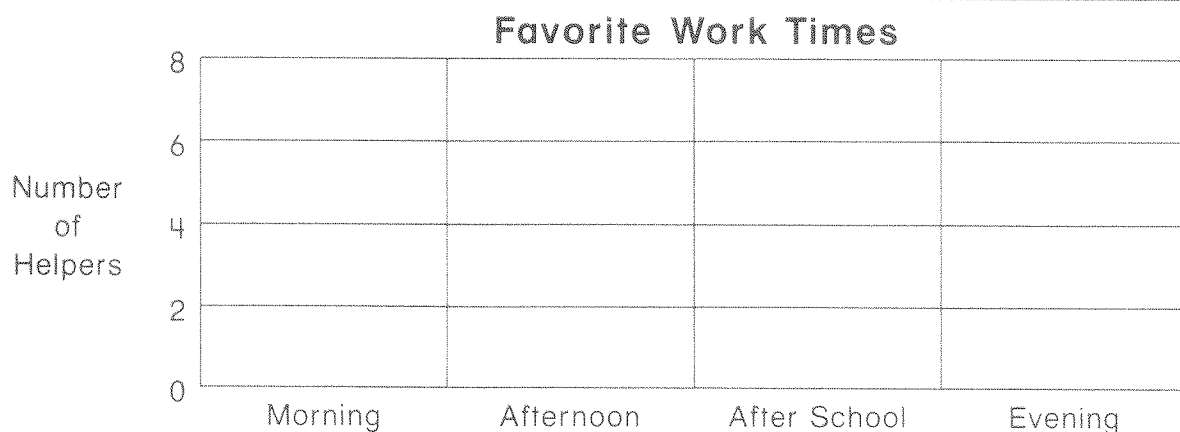
Extra Practice

Use each table to make a graph.

pages 38–39

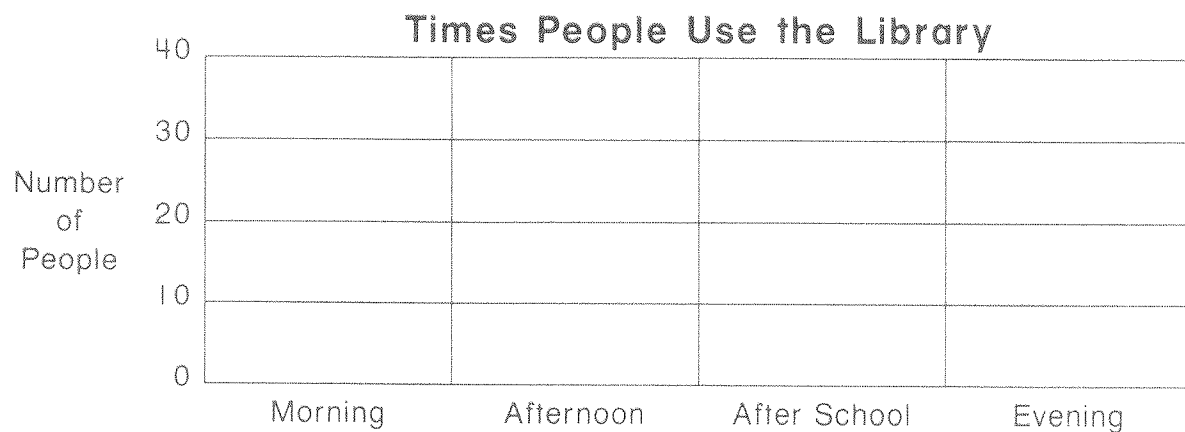
19. This table shows what time of day the library helpers in Read City like to work.

| Favorite Work Times | |
|---------------------|---|
| Morning | 8 |
| Afternoon | 4 |
| After School | 6 |
| Evening | 2 |



20. Ms. Green made this table to show what times of day people use the library.

| Times People Use the Library | |
|------------------------------|----|
| Morning | 20 |
| Afternoon | 30 |
| After School | 40 |
| Evening | 10 |



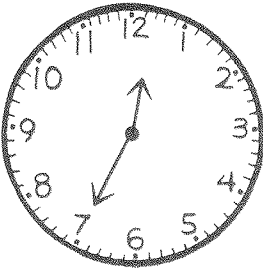
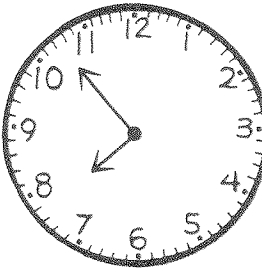


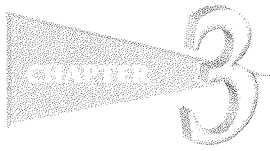
Extra Practice

Multiply.

| | | | |
|---|---|---|---|
| pages 46–49 1. $\begin{array}{r} 9 \\ \times 0 \\ \hline \end{array}$ | 2. $\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$ | 3. $\begin{array}{r} 2 \\ \times 1 \\ \hline \end{array}$ | 4. $\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$ |
| pages 50–51 5. $\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$ | 6. $\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$ | 7. $\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$ | 8. $\begin{array}{r} 8 \\ \times 6 \\ \hline \end{array}$ |
| pages 52–57 9. $\begin{array}{r} 2 \\ \times 7 \\ \hline \end{array}$ | 10. $\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$ | 11. $\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$ | 12. $\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$ |
| 13. $\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$ | 14. $\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$ | 15. $\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$ | 16. $\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$ |

Write each time two ways. pages 58–59

| | |
|---|---|
| 17.  _____ or _____ minutes to _____ | 18.  _____ or _____ minutes to _____ |
|---|---|




Extra Practice

Round to the nearest ten.

pages 60–61

19. It took 43 days for a seed to become a flower.

Is that nearer to 40 or 50? 

It is nearer to ____.

20. Gail planted 37 rose bushes.

Is that nearer to 30 or 40? 


It is nearer to ____.

21. Carl used 69 buckets of water to water the plants.

Is that nearer to 60 or 70? 

It is nearer to ____.

22. Steve planted 14 different types of vegetables.

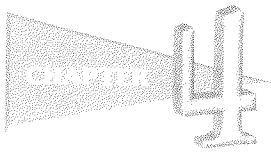
Is it nearer to 10 or 20? 

It is nearer to ____.

23. A hose is 85 feet long.

Is it nearer to 80 or 90? 

It is nearer to ____.



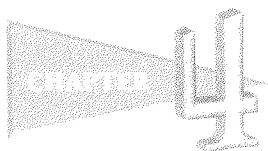
Extra Practice

Multiply.

| | | | |
|--|---|---|---|
| pages 76–79 1. $\begin{array}{r} 60 \\ \times 4 \\ \hline \end{array}$ | 2. $\begin{array}{r} 300 \\ \times 3 \\ \hline \end{array}$ | 3. $\begin{array}{r} 13 \\ \times 3 \\ \hline \end{array}$ | 4. $\begin{array}{r} 11 \\ \times 8 \\ \hline \end{array}$ |
| pages 80–83 5. $\begin{array}{r} 17 \\ \times 5 \\ \hline \end{array}$ | 6. $\begin{array}{r} 36 \\ \times 2 \\ \hline \end{array}$ | 7. $\begin{array}{r} 24 \\ \times 7 \\ \hline \end{array}$ | 8. $\begin{array}{r} 73 \\ \times 5 \\ \hline \end{array}$ |
| pages 84–85 9. $\begin{array}{r} 243 \\ \times 3 \\ \hline \end{array}$ | 10. $\begin{array}{r} 176 \\ \times 2 \\ \hline \end{array}$ | 11. $\begin{array}{r} 315 \\ \times 3 \\ \hline \end{array}$ | 12. $\begin{array}{r} 181 \\ \times 2 \\ \hline \end{array}$ |
| pages 86–87 13. $\begin{array}{r} 427 \\ \times 6 \\ \hline \end{array}$ | 14. $\begin{array}{r} 135 \\ \times 8 \\ \hline \end{array}$ | 15. $\begin{array}{r} 519 \\ \times 3 \\ \hline \end{array}$ | 16. $\begin{array}{r} 711 \\ \times 7 \\ \hline \end{array}$ |

Ring A.M. or P.M. pages 88–89

- | | | |
|---|------|------|
| 17. John cleans his room at 2:30. | A.M. | P.M. |
| 18. Ruth eats breakfast at 6:45. | A.M. | P.M. |
| 19. Frank watches an afternoon program at 3:45. | A.M. | P.M. |
| 20. The sun rises. | A.M. | P.M. |



Extra Practice

Round to the nearest ten.

Estimate to solve.

pages 90–91

21. The school play had 3 acts. Each act was 24 minutes long. About how many minutes long was the play?

$$\begin{array}{r} 24 \\ \times 3 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 3 \\ \hline \end{array}$$

about minutes

22. There were 36 rows of seats in the lunchroom. Each row had 9 seats. About how many seats in all were there?

$$\begin{array}{r} 36 \\ \times 9 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 9 \\ \hline \end{array}$$

about seats

23. The set crew made a fake brick wall. It had 5 rows of bricks with 34 bricks in each row. About how many bricks were used?

$$\begin{array}{r} 34 \\ \times 5 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 5 \\ \hline \end{array}$$

about bricks

24. There were 261 students in the school. Each student got 3 tickets. About how many tickets in all were there?

$$\begin{array}{r} 261 \\ \times 3 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 3 \\ \hline \end{array}$$

about tickets

25. Mr. Hall bought trim for 6 costumes. Each costume had 18 yards of trim. About how many yards did Mr. Hall Buy?

$$\begin{array}{r} 18 \\ \times 6 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 6 \\ \hline \end{array}$$

about yards

26. There were 23 students. Each student made 2 dozen cookies to sell at the play. How many dozens of cookies in all did they make?

$$\begin{array}{r} 23 \\ \times 2 \\ \hline \end{array} \longrightarrow \begin{array}{r} \\ \times 2 \\ \hline \end{array}$$

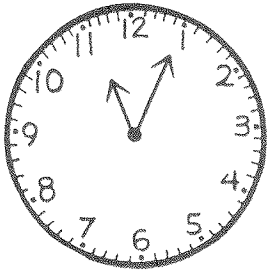
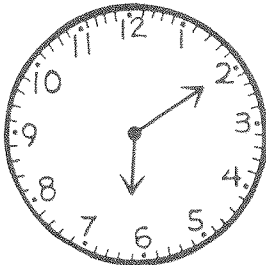
about dozen

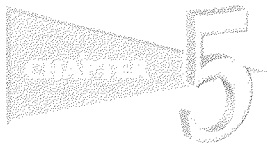
CHAPTER 5 Extra Practice

Divide.

| | | | |
|---|---|---|---|
| <div>pages 98–101</div> <div>1.</div> <div>$6 \overline{)24}$</div> | <div>2.</div> <div>$4 \overline{)20}$</div> | <div>3.</div> <div>$3 \overline{)12}$</div> | <div>4.</div> <div>$5 \overline{)15}$</div> |
| <div>pages 102–103</div> <div>5.</div> <div>$7 \overline{)28}$</div> | <div>6.</div> <div>$7 \overline{)35}$</div> | <div>7.</div> <div>$7 \overline{)56}$</div> | <div>8.</div> <div>$7 \overline{)49}$</div> |
| <div>pages 104–105</div> <div>9.</div> <div>$8 \overline{)16}$</div> | <div>10.</div> <div>$8 \overline{)48}$</div> | <div>11.</div> <div>$8 \overline{)56}$</div> | <div>12.</div> <div>$8 \overline{)64}$</div> |
| <div>pages 106–109</div> <div>13.</div> <div>$9 \overline{)9}$</div> | <div>14.</div> <div>$9 \overline{)36}$</div> | <div>15.</div> <div>$9 \overline{)54}$</div> | <div>16.</div> <div>$9 \overline{)72}$</div> |

What time will it be? pages 110–111

| | |
|--|--|
| <div>17.</div> <div>  </div> <div>In 40 minutes it will be _____.</div> | <div>18.</div> <div>  </div> <div>In 10 minutes it will be _____.</div> |
|--|--|



Extra Practice

Ring the correct problem.

pages 112–113

19. Terese stacked cans of soup at a store. She made 6 rows with 18 cans in each row. How many cans of soup in all were there?

$$\begin{array}{r} 18 \\ \times 6 \\ \hline 108 \end{array}$$
 cans

$$\begin{array}{r} 3 \text{ cans} \\ 6 \overline{)18} \end{array}$$

20. Carol had 35 plants. She put them in rows with 7 plants in each row. How many rows of plants did Carol have?

$$\begin{array}{r} 35 \\ \times 7 \\ \hline 245 \end{array}$$
 rows

$$\begin{array}{r} 5 \text{ rows} \\ 7 \overline{)35} \end{array}$$

21. Ichiro had 21 homework problems. He had 3 nights to finish his homework. How many problems should Ichiro solve each night?

$$\begin{array}{r} 21 \\ \times 3 \\ \hline 63 \end{array}$$
 problems

$$\begin{array}{r} 7 \text{ problems} \\ 3 \overline{)21} \end{array}$$

22. The school cooks baked 6 pans of bars. Each pan made 42 bars. How many bars in all did they bake?

$$\begin{array}{r} 42 \\ \times 6 \\ \hline 252 \end{array}$$
 bars

$$\begin{array}{r} 7 \text{ bars} \\ 6 \overline{)42} \end{array}$$

23. Tara walks 3 miles every day. How many miles does Tara walk in 30 days?

$$\begin{array}{r} 30 \\ \times 3 \\ \hline 90 \end{array}$$
 miles

$$\begin{array}{r} 10 \text{ miles} \\ 3 \overline{)30} \end{array}$$

CHAPTER 6

Extra Practice

Divide.

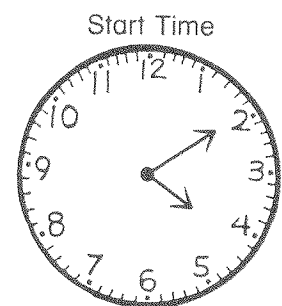
| | | | |
|---|-------------------------------|--------------------------------|--------------------------------|
| <p>pages 120–123</p> <p>1.</p> $5 \overline{)31}$ | <p>2.</p> $4 \overline{)33}$ | <p>3.</p> $4 \overline{)40}$ | <p>4.</p> $8 \overline{)800}$ |
| <p>pages 124–127</p> <p>5.</p> $2 \overline{)48}$ | <p>6.</p> $3 \overline{)39}$ | <p>7.</p> $2 \overline{)25}$ | <p>8.</p> $3 \overline{)67}$ |
| <p>pages 128–131</p> <p>9.</p> $3 \overline{)44}$ | <p>10.</p> $4 \overline{)71}$ | <p>11.</p> $6 \overline{)314}$ | <p>12.</p> $5 \overline{)418}$ |

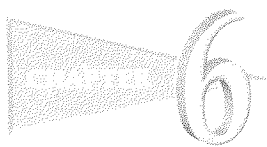
Write the answer. pages 132–133

13. It takes 30 minutes to get to Susan's aunt's house.
Susan and her family leave at 4:10 P.M.

What time will they get to Susan's aunt's house?

They will get there at _____ P.M.





Extra Practice

Ring the correct problem.

pages 134–135

14. A plane has 150 seats.

There are 6 seats in a row.

How many rows of seats
does the plane have?

$$\begin{array}{r} 150 \\ \times 6 \\ \hline 900 \text{ rows} \end{array}$$

$$\begin{array}{r} 25 \text{ rows} \\ 6 \overline{)150} \end{array}$$

15. The restaurant had 132 tables and
3 waiters. Each waiter served
the same number of tables. How
many tables did each waiter serve?

$$\begin{array}{r} 132 \\ \times 3 \\ \hline 396 \text{ tables} \end{array}$$

$$\begin{array}{r} 44 \text{ tables} \\ 3 \overline{)132} \end{array}$$

16. There are 240 rooms at Sleep Inn
Hotel. Each room has 2 beds. How
many beds in all are there?

$$\begin{array}{r} 240 \\ \times 2 \\ \hline 480 \text{ beds} \end{array}$$

$$\begin{array}{r} 120 \text{ beds} \\ 2 \overline{)240} \end{array}$$

17. There are 240 rooms on 6 floors
at Sleep Inn Hotel. How many
rooms are there on each floor?

$$\begin{array}{r} 240 \\ \times 6 \\ \hline 1,440 \text{ rooms} \end{array}$$

$$\begin{array}{r} 40 \text{ rooms} \\ 6 \overline{)240} \end{array}$$

18. A farmer has planted 175 rows of
corn with 5 corn plants in each
row. How many plants
does the farmer have?

$$\begin{array}{r} 175 \\ \times 5 \\ \hline 875 \text{ plants} \end{array}$$

$$\begin{array}{r} 35 \text{ plants} \\ 5 \overline{)175} \end{array}$$