

**Adding Decimals (Adding Zeros)****SKILLS****Find each sum.**

1. 
$$\begin{array}{r} 3.02 \\ + 0.8 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 0.91 \\ + 4.0 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 2.6 \\ + 5.07 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 5.9 \\ + 2.08 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 4.16 \\ + 3.5 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 9.36 \\ + 0.4 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 6.0 \\ + 1.38 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 12.03 \\ + 3.9 \\ \hline \end{array}$$

9. 
$$\begin{array}{r} 0.3 \\ + 1.47 \\ \hline \end{array}$$

10. 
$$\begin{array}{r} 6.2 \\ + 0.84 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 2.6 \\ + 0.12 \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 3.2 \\ + 0.08 \\ \hline \end{array}$$

13. 
$$\begin{array}{r} 1.8 \\ + 7.45 \\ \hline \end{array}$$

14. 
$$\begin{array}{r} 3.64 \\ + 1.7 \\ \hline \end{array}$$

15. 
$$\begin{array}{r} 4.97 \\ + 3.5 \\ \hline \end{array}$$

16. 
$$\begin{array}{r} 2.61 \\ + 0.8 \\ \hline \end{array}$$

17. 
$$\begin{array}{r} 11.8 \\ + 9.07 \\ \hline \end{array}$$

18. 
$$\begin{array}{r} 0.72 \\ + 3.9 \\ \hline \end{array}$$

19. 
$$\begin{array}{r} 2.43 \\ + 1.8 \\ \hline \end{array}$$

20. 
$$\begin{array}{r} 6.85 \\ + 2.8 \\ \hline \end{array}$$

21. 
$$\begin{array}{r} 18.23 \\ + 27.3 \\ \hline \end{array}$$

22. 
$$\begin{array}{r} 29.2 \\ + 4.08 \\ \hline \end{array}$$

23. 
$$\begin{array}{r} 5.7 \\ + 17.03 \\ \hline \end{array}$$

24. 
$$\begin{array}{r} 4.0 \\ + 10.44 \\ \hline \end{array}$$

**Find each sum. Show your work.**

25.  $16 + 3.6$

26.  $21.3 + 0.65$

27.  $9 + 23.62$

28.  $0.32 + 2.9$

29.  $21.3 + 0.68$

30.  $40 + 6.9$

31.  $5.6 + 25$

32.  $0.64 + 2.3$

## Adding Decimals (Adding Zeros)

### CRITICAL THINKING AND PROBLEM SOLVING

**33.** Use the menu at the right to find the total cost for each order.

**Order 1**

- Spaghetti and Meatballs
- Lettuce Salad

Order 1 Total = \_\_\_\_\_

**Order 2**

- Special of the Day
- Iced Tea

Order 2 Total = \_\_\_\_\_

**Order 3**

- Grilled Chicken Breast
- Cup of Soup

Order 3 Total = \_\_\_\_\_

**Order 4**

- Grilled Chicken Breast
- Fruit Salad, Milk

Order 4 Total = \_\_\_\_\_

<b>MENU</b>	
<u>Dinners</u>	
Spaghetti and Meatballs .....	\$6.00
Grilled Chicken Breast .....	\$7.95
Special of the Day .....	\$5.00
<u>Soup and Salad</u>	
Cup of Soup.....	\$2.00
Lettuce Salad.....	\$1.59
Fruit Salad.....	\$1.90
<u>Beverage</u>	
Milk.....	\$1.00
Soft Drink.....	\$.099
Iced Tea.....	\$.099

**34.** On the first day of your vacation you drove 329 miles. The next day you drove 123.7 miles. How many miles did you travel?

You traveled \_\_\_\_\_ miles.

**35.** You are moving two boxes. One box weighs 12.7 pounds. The second box weighs 25 pounds. How much do the boxes weigh together?

The boxes weigh \_\_\_\_\_ pounds.

**Use a calculator to find the sum for each problem.**

**36.**    53.65  
      12.54  
+ 23.57

**37.**    58.23  
      71.36  
+ 52.68

**38.**    15.374  
      16.581  
+ 57.306

**39.**    69.78  
      2.34  
+ 5.67

**40.**  $0.25 + 5.69 + 12.99 =$  \_\_\_\_\_

**41.**  $5.94 + 6 + 2.66 + 3.9 =$  \_\_\_\_\_

**42.**  $2.51 + 3.09 + 6.66 =$  \_\_\_\_\_

**43.**  $26.87 + 69.68 + 50.01 =$  \_\_\_\_\_

**44.**  $569.51 + 345.69 + 231.08 + 657.25 =$  \_\_\_\_\_

**Adding More Than Two Decimals****SKILLS**

Find each sum.

$$\begin{array}{r} 1. \quad 0.3 \\ \quad 8.6 \\ + \quad 2.4 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 0.72 \\ \quad 0.09 \\ + \quad 1.47 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 6.8 \\ \quad 7.4 \\ + \quad 3.5 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 9.1 \\ \quad 3.7 \\ + \quad 4.28 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 1.9 \\ \quad 4.08 \\ + \quad 3.25 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 7.8 \\ \quad 3.6 \\ + \quad 5.09 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 4.9 \\ \quad 3.04 \\ + \quad 2.06 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 0.72 \\ \quad 53 \\ + \quad 8.91 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 8.37 \\ \quad 7.72 \\ + \quad 4.21 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 6.39 \\ \quad 6.8 \\ + \quad 6.47 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 0.84 \\ \quad 0.28 \\ + \quad 3.4 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 0.09 \\ \quad 2.4 \\ + \quad 8.7 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 26.18 \\ \quad 17.82 \\ + \quad 31 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 10.09 \\ \quad 0.01 \\ + \quad 43.9 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 16.8 \\ \quad 1.25 \\ + \quad 4.38 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad 21.8 \\ \quad 13.74 \\ + \quad 49.6 \\ \hline \end{array}$$

$$\begin{array}{r} 17. \quad 125 \\ \quad 70.4 \\ + \quad 426.9 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \quad 11.04 \\ \quad 0.08 \\ + \quad 9.9 \\ \hline \end{array}$$

$$\begin{array}{r} 19. \quad 365.7 \\ \quad 981.6 \\ + \quad 107.5 \\ \hline \end{array}$$

$$\begin{array}{r} 20. \quad 28.31 \\ \quad 109.4 \\ + \quad 94.7 \\ \hline \end{array}$$

For each addition problem, show your work in the space provided.

21. Find the sum of 612.7, 98.4, and 7.08.

22. Find the sum of 33.72, 195, and 0.8

23. Find the sum of 57.08, 93.7 and 18.59.

24. Find the sum of 67.2, 46, and 9.85.

## Adding More Than Two Decimals

### CRITICAL THINKING AND PROBLEM SOLVING

Use the table to answer questions 25–27.

GROCERY PRICES			
Cereal	\$3.29	Soup	\$0.96
Grapes	\$1.47	Rolls	\$1.39
Lettuce	\$0.99	Ground beef	\$4.32
Cheese	\$2.39	Milk	\$2.36

25. Choose four items from the table and write them on the lines below with their cost. Find the total cost.

ITEM

COST

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TOTAL COST

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26. The total of three items is \$6.70. Write the three items on the lines below.

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27. The total of four items is \$6.63. Write the four items on the lines below.

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Find the missing number in each addition problem.

28. 
$$\begin{array}{r} 23.00 \\ + \square \\ \hline 116.35 \end{array}$$

29. 
$$\begin{array}{r} 45.89 \\ + \square \\ \hline 134.05 \end{array}$$

**Hint:** There are different ways to find the missing number. One way is to use the Guess, Check, and Revise strategy. Guess a number, add it to the given number, check to see whether this is the given sum, then revise your guess, if needed.

30. 
$$\begin{array}{r} 69.32 \\ + \square \\ \hline 89.86 \end{array}$$

31. 
$$\begin{array}{r} 78.59 \\ + \square \\ \hline 89.80 \end{array}$$

32. 
$$\begin{array}{r} 63.87 \\ + \square \\ \hline 68.97 \end{array}$$

33. 
$$\begin{array}{r} 99.99 \\ + \square \\ \hline 125.33 \end{array}$$



Name \_\_\_\_\_

5.NBT.7

## Adding Decimals Through Thousandths

### SKILLS

Find each sum.

$$\begin{array}{r} 1. \quad 6.78 \\ + 0.436 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 0.847 \\ + 0.27 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 0.552 \\ + 1.473 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 9.98 \\ + 1.259 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 4.934 \\ + 0.085 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 7.536 \\ + 68.7 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 32.856 \\ + 109.23 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 762.9 \\ + 158.556 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 28.8 \\ + 3.497 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 278 \\ + 37.634 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 67.489 \\ + 109.6 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 3.92 \\ + 8.087 \\ \hline \end{array}$$

For each addition problem, show your work in the space provided.

13. Add 42.329, 45.361, and 93.215.

14. Add 5.376, 42.75, and 56.304.

15. Add 0.439, 59, and 42.36.

16. Add 5.36, 9.064, and 12.361.

17. Find the sum of 21.6, 35.093, and 4.72.

18. Find the sum of 436.27, 94.432, and 235.

19. Find the sum of 9.76, 25, and 3.409.

20. Find the sum of 94.706, 42.7, and 5.69.

## Adding Decimals Through Thousandths

### CRITICAL THINKING AND PROBLEM SOLVING

Choose the best answer.

21. 
$$\begin{array}{r} 2.? \\ + 3.? \\ \hline \end{array}$$

- a. The sum is between 5 and 6.
- c. The sum is between 5 and 7.

22. 
$$\begin{array}{r} 2.? \\ + 2.? \\ \hline \end{array}$$

- a. The sum is between 4 and 5.
- b. The sum is between 4 and 6.
- c. The sum is between 5 and 6.
- d. The sum is between 5 and 7.

24. 
$$\begin{array}{r} 1.? \\ + 2.? \\ \hline \end{array}$$

- a. The sum is between 3 and 5.
- b. The sum is between 4 and 5.
- c. The sum is between 3 and 4.
- d. The sum is between 4 and 7.

**HINT:** To solve a problem like this, find the lowest possible answer and the highest possible answer. The sum must be somewhere between the two.

- b. The sum is between 6 and 7.
- d. The sum is between 6 and 8.

23. 
$$\begin{array}{r} 0.? \\ + 1.? \\ \hline \end{array}$$

- a. The sum is between 0 and 1.
- b. The sum is between 1 and 2.
- c. The sum is between 1 and 3.
- d. The sum is between 0 and 2.

25. 
$$\begin{array}{r} 4.? \\ + 5.? \\ \hline \end{array}$$

- a. The sum is between 9 and 10.
- b. The sum is between 10 and 12.
- c. The sum is between 9 and 11.
- d. The sum is between 10 and 11.

26. Your frog jumped 1.15 meters. Your friend's frog jumped 0.236 meter farther. How far did your friend's frog jump?

Your friend's frog jumped \_\_\_\_\_ meters.

27. In the second jump your friend's frog jumped 1.03 meters. Your frog jumped 0.126 meter farther. How far did your frog jump?

Your frog jumped \_\_\_\_\_ meters.

28. On field day you ran a mile in 10.562 minutes. Your friend took 0.731 minutes longer. How long did it take your friend to run a mile?

Your friend took \_\_\_\_\_ minutes to run a mile.

29. On the first day of vacation you drove 317.8 miles. The second day you drove 236.735 miles, and on the third day you drove 176 miles. How far did you travel in three days?

Your traveled \_\_\_\_\_ miles in three days.

Name \_\_\_\_\_

5.NBT.7

**Subtracting Decimals (Regrouping)****SKILLS**

Find each difference.

1. 
$$\begin{array}{r} 4.3 \\ - 1.7 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 2.4 \\ - 0.8 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 1.6 \\ - 0.9 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 2.45 \\ - 1.6 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 9.11 \\ - 3.05 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 4.02 \\ - 1.3 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 5.7 \\ - 4.8 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 3.6 \\ - 1.7 \\ \hline \end{array}$$

9. 
$$\begin{array}{r} 16.01 \\ - 4.8 \\ \hline \end{array}$$

10. 
$$\begin{array}{r} 3.07 \\ - 0.4 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 1.18 \\ - 0.3 \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 25.32 \\ - 9.1 \\ \hline \end{array}$$

13. 
$$\begin{array}{r} 12.4 \\ - 9.8 \\ \hline \end{array}$$

14. 
$$\begin{array}{r} 15.6 \\ - 8.7 \\ \hline \end{array}$$

15. 
$$\begin{array}{r} 1.32 \\ - 0.94 \\ \hline \end{array}$$

16. 
$$\begin{array}{r} 8.21 \\ - 1.85 \\ \hline \end{array}$$

17. 
$$\begin{array}{r} 38.31 \\ - 9.6 \\ \hline \end{array}$$

18. 
$$\begin{array}{r} 42.16 \\ - 8.3 \\ \hline \end{array}$$

19. 
$$\begin{array}{r} 22.91 \\ - 3.07 \\ \hline \end{array}$$

20. 
$$\begin{array}{r} 5.12 \\ - 0.19 \\ \hline \end{array}$$

21. 
$$\begin{array}{r} 51.32 \\ - 1.52 \\ \hline \end{array}$$

22. 
$$\begin{array}{r} 23.24 \\ - 16.7 \\ \hline \end{array}$$

23. 
$$\begin{array}{r} 62.5 \\ - 23.8 \\ \hline \end{array}$$

24. 
$$\begin{array}{r} 81.24 \\ - 66.9 \\ \hline \end{array}$$

25. Find the difference of 36.2 and 7.49.

26. Find the difference of 7 and 5.91.

27. Find the difference of 93.1 and 37.25.

28. Find the difference of 237.5 and 75.37.

29. Find the difference of 73 and 16.71.

30. Find the difference of 0.70 and 0.54.

## Subtracting Decimals (Regrouping)

### CRITICAL THINKING AND PROBLEM SOLVING

Is each difference correct? If it is **NOT** correct, give the correct difference and tell why you think it is not correct.

31. 
$$\begin{array}{r} 456.8 \\ - 26.59 \\ \hline 19.01 \end{array}$$
 YES \_\_\_\_\_  
 NO \_\_\_\_\_

32. 
$$\begin{array}{r} 423.7 \\ - 156.8 \\ \hline 257.9 \end{array}$$
 YES \_\_\_\_\_  
 NO \_\_\_\_\_

33. 
$$\begin{array}{r} 82.3 \\ - 2.56 \\ \hline 5.67 \end{array}$$
 YES \_\_\_\_\_  
 NO \_\_\_\_\_

The table gives the speed in kilometers per hour that animals can run. Use the table to answer each question.

34. How much faster does a cheetah run than a zebra?  
 A cheetah runs \_\_\_\_\_ kilometers per hour faster than a zebra.

35. How much faster does a lion run than a gray fox?  
 The lion runs \_\_\_\_\_ kilometers per hour faster than a gray fox.

36. What is the difference in the speeds of a lion and a grizzly bear?  
 The difference is \_\_\_\_\_ kilometers per hour.

37. How much slower does a quarter horse run than a cheetah?  
 A quarter horse runs \_\_\_\_\_ kilometers per hour slower than a cheetah.

Animal	Speed (kph)
Cheetah	112.63
Wildebeest	80.45
Gray fox	67.58
Greyhound dog	63.31
Quarter horse	76.43
Zebra	64.36
Grizzly bear	48.27
Lion	80.45



Name \_\_\_\_\_

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## Subtracting Decimals Through Thousandths

### SKILLS

Find each difference.

$$\begin{array}{r} 1. \quad 16 \\ - 4.95 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 12 \\ - 11.63 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 27 \\ - 6.451 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 32.1 \\ - 3.053 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 4.6 \\ - 1.394 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 60 \\ - 2.316 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 41 \\ - 13.821 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 7 \\ - 1.815 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 3.02 \\ - 1.265 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 0.8 \\ - 0.643 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 30.026 \\ - 6.7 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 12.657 \\ - 4.039 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 28.1 \\ - 9.39 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 15 \\ - 8.273 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 1 \\ - 0.98 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad 21.06 \\ - 14.353 \\ \hline \end{array}$$

$$\begin{array}{r} 17. \quad 31 \\ - 6.776 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \quad 51.284 \\ - 7.9 \\ \hline \end{array}$$

$$\begin{array}{r} 19. \quad 32.1 \\ - 8.473 \\ \hline \end{array}$$

$$\begin{array}{r} 20. \quad 9.314 \\ - 6.537 \\ \hline \end{array}$$

$$\begin{array}{r} 21. \quad 70.084 \\ - 9.3 \\ \hline \end{array}$$

$$\begin{array}{r} 22. \quad 20.437 \\ - 0.7 \\ \hline \end{array}$$

$$\begin{array}{r} 23. \quad 2.025 \\ - 0.25 \\ \hline \end{array}$$

$$\begin{array}{r} 24. \quad 7.064 \\ - 1.391 \\ \hline \end{array}$$

For each subtraction problem, show your work in the space provided.

25. Subtract 3.213  
from 50.

26. Subtract 1.156  
from 20.

27. Subtract 0.463  
from 0.8.

28. Subtract 0.645  
from 1.3.

Name \_\_\_\_\_

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## Subtracting Decimals Through Thousandths

**CRITICAL THINKING AND PROBLEM SOLVING**

Use the table to answer questions 29–32.

Standard Diameters for U.S. Coins	
Coin	Diameter (in inches)
Penny	0.75
Nickel	0.835
Dime	0.705
Quarter	0.955
Half Dollar	1.205
Dollar	1.04
Golden Dollar	1.043

29. How much larger in diameter is the half dollar than the penny?

The half dollar is \_\_\_\_\_ inch longer.

30. What is the difference in the diameters of the dollar and the dime?

The difference is \_\_\_\_\_ inch.

31. What is the difference in the diameters of the golden dollar and the quarter?

The difference is \_\_\_\_\_ inch.

32. How much larger in diameter is the dollar than the nickel?

The dollar is \_\_\_\_\_ inch longer.

Use a calculator to find each difference. Be sure you put in the decimal point when you enter the numbers on your calculator.

33. 
$$\begin{array}{r} 526.23 \\ - 258.736 \\ \hline \end{array}$$

34. 
$$\begin{array}{r} 89.573 \\ - 28.949 \\ \hline \end{array}$$

35. 
$$\begin{array}{r} 123.65 \\ - 56.873 \\ \hline \end{array}$$

36. 
$$\begin{array}{r} 298.361 \\ - 165.876 \\ \hline \end{array}$$

Find the missing number in each subtraction problem.

37. 
$$\begin{array}{r} 69.32 \\ - \boxed{\phantom{00}} \\ \hline 42.31 \end{array}$$

38. 
$$\begin{array}{r} 78.59 \\ - \boxed{\phantom{00}} \\ \hline 63.63 \end{array}$$

39. 
$$\begin{array}{r} 41.63 \\ - \boxed{\phantom{00}} \\ \hline 27.34 \end{array}$$

40. 
$$\begin{array}{r} 86.11 \\ - \boxed{\phantom{00}} \\ \hline 33.59 \end{array}$$

41. 
$$\begin{array}{r} 63.87 \\ - \boxed{\phantom{00}} \\ \hline 20.38 \end{array}$$

42. 
$$\begin{array}{r} 99.99 \\ - \boxed{\phantom{00}} \\ \hline 29.61 \end{array}$$

43. 
$$\begin{array}{r} 63.25 \\ - \boxed{\phantom{00}} \\ \hline 41.35 \end{array}$$

44. 
$$\begin{array}{r} 55.04 \\ - \boxed{\phantom{00}} \\ \hline 52.62 \end{array}$$

Name \_\_\_\_\_

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## Multiplying by 10, 100, and 1,000

### SKILLS

Use mental math to find each product.

1.  $7.42 \times 10 =$  \_\_\_\_\_

2.  $8.361 \times 1,000 =$  \_\_\_\_\_

3.  $12.91 \times 100 =$  \_\_\_\_\_

4.  $25.734 \times 100 =$  \_\_\_\_\_

5.  $426.95 \times 10 =$  \_\_\_\_\_

7.  $0.59 \times 100 =$  \_\_\_\_\_

9.  $3.042 \times 1,000 =$  \_\_\_\_\_

To multiply a decimal by 10, move the decimal point one place to the right.

To multiply a decimal by 100, move the decimal point two places to the right.

To multiply a decimal by 1,000, move the decimal point three places to the right.

6.  $3.425 \times 1,000 =$  \_\_\_\_\_

8.  $49.6 \times 10 =$  \_\_\_\_\_

10.  $75.436 \times 100 =$  \_\_\_\_\_

Find each product.

11. 
$$\begin{array}{r} 0.82 \\ \times 10 \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 1.34 \\ \times 10 \\ \hline \end{array}$$

13. 
$$\begin{array}{r} 100 \\ \times 0.21 \\ \hline \end{array}$$

14. 
$$\begin{array}{r} 6.93 \\ \times 100 \\ \hline \end{array}$$

15. 
$$\begin{array}{r} 1,000 \\ \times 3.28 \\ \hline \end{array}$$

16. 
$$\begin{array}{r} 100 \\ \times 6.4 \\ \hline \end{array}$$

17. 
$$\begin{array}{r} 7.46 \\ \times 10 \\ \hline \end{array}$$

18. 
$$\begin{array}{r} 3.82 \\ \times 1,000 \\ \hline \end{array}$$

Circle the missing number in each multiplication problem.

19.  $63.45 \times ? = 634.5$   
a. 10   b. 100   c. 1,000

20.  $5.963 \times ? = 5,963$   
a. 10   b. 100   c. 1,000

21.  $2.94 \times ? = 2,940$   
a. 10   b. 100   c. 1,000

22.  $42.63 \times ? = 4,263$   
a. 10   b. 100   c. 1,000

23.  $0.45 \times ? = 45$   
a. 10   b. 100   c. 1,000

24.  $0.1245 \times ? = 12.45$   
a. 10   b. 100   c. 1,000

**Multiplying by 10, 100, and 1,000****CRITICAL THINKING AND PROBLEM SOLVING**

25. Titan, one of Saturn's moons, has a diameter of  $(5.15 \times 1,000)$  kilometers. Evaluate the expression to find Titan's diameter.

Titan's diameter is \_\_\_\_\_ kilometers.

26. The Gobi Desert in Central Asia is  $(401.5 \times 1,000)$  square miles in area. Evaluate the expression to find the area.

The area of the Gobi Desert is \_\_\_\_\_ square miles.

27. The area of Hawaii, Hawaii is  $(40.37 \times 100)$  square kilometers. Evaluate the expression to find Hawaii's area.

Hawaii has an area of \_\_\_\_\_ square kilometers.

28. Mt. McKinley, the highest mountain in the United States is  $(20.32 \times 1,000)$  feet high. Evaluate the expression to find Mt. McKinley's height.

Mt. McKinley is \_\_\_\_\_ feet high.

29. The Nile River, the longest river in the world, is  $(66.7 \times 100)$  kilometers long. Evaluate the expression to find the Nile's length.

The Nile River is \_\_\_\_\_ miles long.

30. Niagara Falls has a flow of about  $(58.3 \times 100)$  cubic meters per second. Evaluate the expression to find the amount of water going over the falls.

Niagara Falls has an average flow of \_\_\_\_\_ cubic meters per second.

**Choose the best estimate for each product.**

31.  $3.8 \times 4.3$

12    16    20    15

32.  $2.1 \times 8.9$

16    19    18    10

33.  $4.7 \times 6$

6    24    42    30

34.  $0.98 \times 6.1$

5    6    7    8

35.  $0.9 \times 7.9$

8    9    7    6

36.  $6.8 \times 8.9$

48    56    63    54

37.  $9.8 \times 6.9$

54    63    72    70

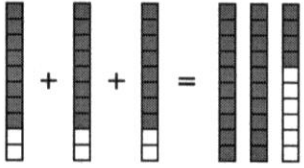
38.  $7.8 \times 11$

88    77    80    71

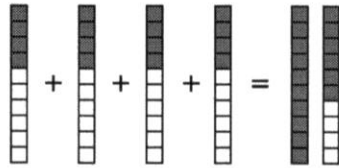
## Multiplying Decimals by Whole Numbers

### SKILLS

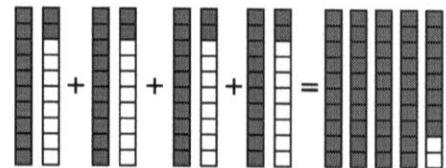
Use the models to find each product.



1.  $0.8 \times 3 =$



2.  $0.4 \times 4 =$



3.  $1.2 \times 4 =$

Find each product.

4. 
$$\begin{array}{r} 0.4 \\ \times 6 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 0.9 \\ \times 5 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 0.7 \\ \times 8 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 2.3 \\ \times 7 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 3.6 \\ \times 9 \\ \hline \end{array}$$

9. 
$$\begin{array}{r} 6.1 \\ \times 2 \\ \hline \end{array}$$

10. 
$$\begin{array}{r} 5.6 \\ \times 3 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 7.9 \\ \times 6 \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 8.3 \\ \times 4 \\ \hline \end{array}$$

13. 
$$\begin{array}{r} 4.7 \\ \times 3 \\ \hline \end{array}$$

14. 
$$\begin{array}{r} 9.1 \\ \times 12 \\ \hline \end{array}$$

15. 
$$\begin{array}{r} 7.4 \\ \times 32 \\ \hline \end{array}$$

16. 
$$\begin{array}{r} 2.6 \\ \times 24 \\ \hline \end{array}$$

17. 
$$\begin{array}{r} 5.8 \\ \times 16 \\ \hline \end{array}$$

18. 
$$\begin{array}{r} 0.5 \\ \times 47 \\ \hline \end{array}$$

19. 
$$\begin{array}{r} 0.61 \\ \times 7 \\ \hline \end{array}$$

20. 
$$\begin{array}{r} 0.83 \\ \times 4 \\ \hline \end{array}$$

21. 
$$\begin{array}{r} 0.26 \\ \times 2 \\ \hline \end{array}$$

22. 
$$\begin{array}{r} 1.38 \\ \times 6 \\ \hline \end{array}$$

23. 
$$\begin{array}{r} 1.94 \\ \times 8 \\ \hline \end{array}$$

24. 
$$\begin{array}{r} 6.92 \\ \times 3 \\ \hline \end{array}$$

25. 
$$\begin{array}{r} 4.07 \\ \times 6 \\ \hline \end{array}$$

26. 
$$\begin{array}{r} 3.49 \\ \times 21 \\ \hline \end{array}$$

27. 
$$\begin{array}{r} 6.04 \\ \times 62 \\ \hline \end{array}$$

28. 
$$\begin{array}{r} 9.22 \\ \times 13 \\ \hline \end{array}$$

29. 
$$\begin{array}{r} 2.18 \\ \times 36 \\ \hline \end{array}$$

30. 
$$\begin{array}{r} 12.36 \\ \times 5 \\ \hline \end{array}$$

31. 
$$\begin{array}{r} 26.12 \\ \times 15 \\ \hline \end{array}$$

32. 
$$\begin{array}{r} 17.38 \\ \times 9 \\ \hline \end{array}$$

33. 
$$\begin{array}{r} 47.08 \\ \times 2 \\ \hline \end{array}$$



Name \_\_\_\_\_

5.NBT.7

## Multiplying Decimals by Whole Numbers

### CRITICAL THINKING AND PROBLEM SOLVING

34. Dexter's family is planning a vacation to Disney World. There is a total of four people in the family, all over 12 years of age. They hope to visit Disney World for four days, and Universal Studios for two days. In addition, they want to spend two days on the beach at St. Augustine. They will fly to Florida and rent a car for their visit. Using the costs below, estimate how much they will have to save to pay for their trip. You may use a calculator to help you.

Airfare to Orlando  
\$185.00 per person (Multiply  $\$185.00 \times 4$ )

Total Cost \_\_\_\_\_

Car Rental for 10 days  
\$199.99 per week plus \$35.50 for each extra day  
(Multiply  $\$35.50 \times 3$ ) then add \$199.99

Total Cost \_\_\_\_\_

Disney World 4-day pass  
\$125.25 per person (Multiply  $\$125.25 \times 4$ )

Total Cost \_\_\_\_\_

Universal Studios 2-day pass  
\$55.25 per person (Multiply  $\$55.25 \times 4$ )

Total Cost \_\_\_\_\_

Motel fees—10 nights  
Average \$85.95 per night (Multiply  $\$85.95 \times 10$ )

Total Cost \_\_\_\_\_

Food Expense—11 days  
\$79.50 per day (Multiply  $\$79.50 \times 11$ )

Total Cost \_\_\_\_\_

Estimated Gas Cost  
(1,000 miles) \$95.00

Miscellaneous recreation, souvenirs, etc. \$250.00

Add all figures in the right column to find total cost.

They must save \_\_\_\_\_ for a trip to Florida.

Name \_\_\_\_\_

5.NBT.7

## Multiplying Decimals Through Hundredths

### SKILLS

1. Multiply 1.3 times 0.9.

#### Multiplying Decimals

1. Write the problem vertically.
2. Multiply as you would multiply whole numbers.
3. Use the total number of decimal places in the factors to place the decimal point in the product.

2. Multiply 2.4 times 0.6.

3. Multiply 0.9 times 0.5.

4. Multiply 3.3 times 0.5.

5. Multiply 7.63 times 0.5.

6. Multiply 4.05 times 0.9.

7. Multiply 0.71 times 0.4.

Find each product.

8. 
$$\begin{array}{r} 3.6 \\ \times 1.4 \\ \hline \end{array}$$

9. 
$$\begin{array}{r} 8.5 \\ \times 7.9 \\ \hline \end{array}$$

10. 
$$\begin{array}{r} 1.2 \\ \times 1.2 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 2.37 \\ \times 3.3 \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 7.37 \\ \times 0.2 \\ \hline \end{array}$$

13. 
$$\begin{array}{r} 1.05 \\ \times 0.9 \\ \hline \end{array}$$

14. 
$$\begin{array}{r} 3.07 \\ \times 6.2 \\ \hline \end{array}$$

15. 
$$\begin{array}{r} 0.5 \\ \times 0.4 \\ \hline \end{array}$$

16. 
$$\begin{array}{r} 0.54 \\ \times 0.7 \\ \hline \end{array}$$

17. 
$$\begin{array}{r} 0.82 \\ \times 2.8 \\ \hline \end{array}$$

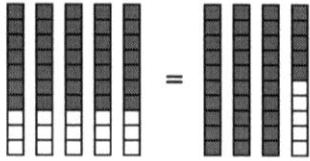
18. 
$$\begin{array}{r} 0.04 \\ \times 3.6 \\ \hline \end{array}$$

19. 
$$\begin{array}{r} 7.05 \\ \times 0.8 \\ \hline \end{array}$$

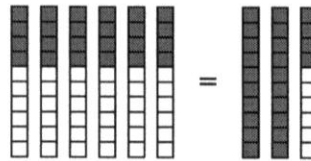
## Multiplying Decimals Through Hundredths

### CRITICAL THINKING AND PROBLEM SOLVING

Write the multiplication problem that is shown by each model.



20.  $\square \times \square = \square$



21.  $\square \times \square = \square$

22. You earn \$5.75 per hour. If you work 8.5 hours in one day, how much will you earn? Round your answer to the nearest hundredth.

You will earn \_\_\_\_\_ in one day.

23. You received a large box in the mail. The length of the box is 2.3 meters, the width is 1.2 meters, and the height is 0.5 meter. What is the volume of the box? (Volume = length  $\times$  width  $\times$  height)

The volume of the box is \_\_\_\_\_ cubic meters.

24. The cost for a pound of ground beef is \$1.59. You need to buy 6.5 pounds for your picnic. What is the cost of the ground beef? Round your answer to the nearest hundredth.

The ground beef costs \_\_\_\_\_.

Enter the missing number in each multiplication problem.

25. 
$$\begin{array}{r} 3.5 \\ \times \square \\ \hline 10.5 \end{array}$$

26. 
$$\begin{array}{r} 6.7 \\ \times \square \\ \hline 40.2 \end{array}$$

27. 
$$\begin{array}{r} 0.25 \\ \times \square \\ \hline 1.25 \end{array}$$

28. 
$$\begin{array}{r} 2.3 \\ \times \square \\ \hline 0.69 \end{array}$$

29. 
$$\begin{array}{r} 1.24 \\ \times \square \\ \hline 2.48 \end{array}$$

30. 
$$\begin{array}{r} 4.3 \\ \times \square \\ \hline 12.9 \end{array}$$

31. 
$$\begin{array}{r} 0.08 \\ \times \square \\ \hline 0.072 \end{array}$$

32. 
$$\begin{array}{r} 5.4 \\ \times \square \\ \hline 21.6 \end{array}$$

## Multiplying Decimals with Zeros in the Product

### SKILLS

Use mental math to solve each multiplication problem.

1. Multiply  $0.06 \times 0.04$ .

\_\_\_\_\_

2. Multiply  $0.09 \times 0.6$ .

\_\_\_\_\_

3. Multiply  $0.3 \times 0.06$ .

\_\_\_\_\_

4. Multiply  $0.12 \times 0.2$ .

\_\_\_\_\_

5. Multiply  $0.08 \times 0.7$ .

\_\_\_\_\_

6. Multiply  $0.04 \times 0.09$ .

\_\_\_\_\_

Find each product.

7. 
$$\begin{array}{r} 0.13 \\ \times 0.06 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 0.21 \\ \times 0.06 \\ \hline \end{array}$$

9. 
$$\begin{array}{r} 2.41 \\ \times 0.03 \\ \hline \end{array}$$

10. 
$$\begin{array}{r} 0.96 \\ \times 0.04 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 0.16 \\ \times 0.09 \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 0.31 \\ \times 0.08 \\ \hline \end{array}$$

13. 
$$\begin{array}{r} 0.09 \\ \times 0.09 \\ \hline \end{array}$$

14. 
$$\begin{array}{r} 1.03 \\ \times 0.06 \\ \hline \end{array}$$

15. 
$$\begin{array}{r} 1.3 \\ \times 0.06 \\ \hline \end{array}$$

16. 
$$\begin{array}{r} 0.32 \\ \times 0.04 \\ \hline \end{array}$$

17. Which pair of factors has a product greater than 4 but less than 6?

- a. 3.5 and 1.6
- b. 4 and 1.9
- c. 1.8 and 1.4

18. Which pair of factors has a product greater than 1 but less than 2?

- a. 1.4 and 1.9
- b. 1.1 and 1.6
- c. 0.99 and 3

19. Which pair of factors has a product greater than 7 but less than 9?

- a. 6 and 1.5
- b. 4 and 2.4
- c. 5.1 and 1.5

20. Which pair of factors has a product greater than 8 but less than 10?

- a. 2.9 and 4.5
- b. 5 and 2.5
- c. 2.1 and 4.2

21. Which pair of factors has a product greater than 3 but less than 5?

- a. 1.6 and 2.6
- b. 2.4 and 2.2
- c. 3.4 and 1.7

22. Which pair of factors has a product greater than 5 but less than 7?

- a. 2.7 and 3.1
- b. 2.2 and 2.6
- c. 2.1 and 2.2

## Multiplying Decimals with Zeros in the Product

### CRITICAL THINKING AND PROBLEM SOLVING

Use a calculator to find the product for each problem. Be sure you press the key for the decimal point in the right place and watch for the decimal point in the answer.

23. 
$$\begin{array}{r} 45.6 \\ \times 2.07 \\ \hline \end{array}$$

24. 
$$\begin{array}{r} 2.05 \\ \times 5.18 \\ \hline \end{array}$$

25. 
$$\begin{array}{r} 16.8 \\ \times 2.79 \\ \hline \end{array}$$

26. 
$$\begin{array}{r} 6.24 \\ \times 35.4 \\ \hline \end{array}$$

27. 
$$\begin{array}{r} 0.26 \\ \times 6.4 \\ \hline \end{array}$$

28. 
$$\begin{array}{r} 4.67 \\ \times 25.4 \\ \hline \end{array}$$

29. 
$$\begin{array}{r} 2.31 \\ \times 6.7 \\ \hline \end{array}$$

30. 
$$\begin{array}{r} 8.98 \\ \times 0.56 \\ \hline \end{array}$$

31. 
$$\begin{array}{r} 36.12 \\ \times 3.9 \\ \hline \end{array}$$

32. 
$$\begin{array}{r} 15.68 \\ \times 4.91 \\ \hline \end{array}$$

33. 
$$\begin{array}{r} 12.34 \\ \times 26.5 \\ \hline \end{array}$$

34. 
$$\begin{array}{r} 89.6 \\ \times 1.35 \\ \hline \end{array}$$

35. What is the area of a rectangular flower garden whose length is 0.98 meter and width is 0.1 meter?

The area of the garden is \_\_\_\_\_ square meter.

36. A football field is about 0.03 mile wide and about 0.07 mile long. What is the area of the field in square miles?

The area of a football field is \_\_\_\_\_ square mile.

37. What is the area of a rectangle whose width is 0.03 yard and length is 0.08 yard?

The area of the rectangle is \_\_\_\_\_ square yard.

38. A survey showed that 0.07 of the people chose cauliflower or asparagus as their favorite vegetable. Of those people, 0.6 chose cauliflower. What part of the people chose cauliflower?

\_\_\_\_\_ of the people chose cauliflower.

39. What is the area of a rectangle with a length equal to 0.5 foot and a width equal to 0.07 foot?

The area of the rectangle is \_\_\_\_\_ square foot.



## Multiplying Decimals Through Thousandths

### SKILLS

Estimate each product, then find the actual product.

Estimate

Estimate

Estimate

$$\begin{array}{r} 1. \quad 4.961 \rightarrow \\ \times 0.42 \rightarrow \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 4.936 \rightarrow \\ \times 4.14 \rightarrow \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 10.836 \rightarrow \\ \times 2.34 \rightarrow \\ \hline \end{array}$$

Estimate

Estimate

Estimate

$$\begin{array}{r} 4. \quad 3.782 \rightarrow \\ \times 1.246 \rightarrow \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 5.164 \rightarrow \\ \times 1.023 \rightarrow \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 6.065 \rightarrow \\ \times 7.84 \rightarrow \\ \hline \end{array}$$

Find each product.

$$\begin{array}{r} 7. \quad 7.293 \\ \times 0.06 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 5.082 \\ \times 0.09 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 1.375 \\ \times 0.05 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 0.493 \\ \times 0.06 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 6.482 \\ \times 0.25 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 1.574 \\ \times 0.93 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 3.075 \\ \times 0.55 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 0.873 \\ \times 0.22 \\ \hline \end{array}$$

Put the decimal in the correct place in each product.

$$\begin{array}{r} 15. \quad 8.61 \\ \times 3.72 \\ \hline 320292 \end{array}$$

$$\begin{array}{r} 16. \quad 2.072 \\ \times 3.61 \\ \hline 747992 \end{array}$$

$$\begin{array}{r} 17. \quad 7.732 \\ \times 2.32 \\ \hline 1793824 \end{array}$$

$$\begin{array}{r} 18. \quad 9.084 \\ \times 5.62 \\ \hline 5105208 \end{array}$$

$$\begin{array}{r} 19. \quad 9.371 \\ \times 3.08 \\ \hline 2886268 \end{array}$$

$$\begin{array}{r} 20. \quad 0.873 \\ \times 2.2 \\ \hline 19206 \end{array}$$

$$\begin{array}{r} 21. \quad 2.365 \\ \times 24.3 \\ \hline 574695 \end{array}$$

$$\begin{array}{r} 22. \quad 0.736 \\ \times 21.3 \\ \hline 156768 \end{array}$$

Name \_\_\_\_\_

5.NBT.7

## Multiplying Decimals Through Thousandths

### CRITICAL THINKING AND PROBLEM SOLVING

Is the decimal point in the right place in each product? If it is not, tell why you think it is not in the right place.

23. 
$$\begin{array}{r} 12.6 \\ \times 6.5 \\ \hline 8.190 \end{array}$$
 YES \_\_\_\_\_  
NO \_\_\_\_\_

24. 
$$\begin{array}{r} 3.65 \\ \times 12.7 \\ \hline 4635.5 \end{array}$$
 YES \_\_\_\_\_  
NO \_\_\_\_\_

25. 
$$\begin{array}{r} 62.4 \\ \times 0.46 \\ \hline 287.04 \end{array}$$
 YES \_\_\_\_\_  
NO \_\_\_\_\_

26. 
$$\begin{array}{r} 0.627 \\ \times 0.058 \\ \hline 0.036366 \end{array}$$
 YES \_\_\_\_\_  
NO \_\_\_\_\_

27. An ostrich is 274.3 centimeters high. What is its height in inches? Round your answer to the nearest tenth. (1 cm = 0.394 inch)

An ostrich is \_\_\_\_\_ inches tall.

28. A spine-tailed swift is the fastest bird in the world. It can fly at 106 miles per hour. How many kilometers per hour is that? Round your answer to the nearest tenth. (1 mile = 1.609 km)

A spine-tailed swift can fly at \_\_\_\_\_ kilometers per hour.

29. A blue whale is 33.5 meters long. How many feet is that? Round your answer to the nearest tenth. (1 meter = 3.281 feet)

A blue whale is \_\_\_\_\_ feet long.

30. A walrus is 3.8 meters long. How long is that in feet? Round your answer to the nearest tenth. (1 meter = 3.281 feet)

A walrus is \_\_\_\_\_ feet long.

Name \_\_\_\_\_

5.NBT.7

## Dividing Decimals by 10, 100, and 1,000

### SKILLS

Divide by 10	Divide by 100	Divide by 1,000
Move decimal point one place to the left.	Move decimal point two places to the left.	Move decimal point three places to the left.

Use mental math to find each quotient.

1.  $0.63 \div 10 =$  \_\_\_\_\_      2.  $0.63 \div 100 =$  \_\_\_\_\_      3.  $0.63 \div 1,000 =$  \_\_\_\_\_

4.  $23.7 \div 10 =$  \_\_\_\_\_      5.  $23.7 \div 100 =$  \_\_\_\_\_      6.  $23.7 \div 1,000 =$  \_\_\_\_\_

7.  $4.6 \div 10 =$  \_\_\_\_\_      8.  $23.6 \div 100 =$  \_\_\_\_\_      9.  $42.7 \div 1,000 =$  \_\_\_\_\_

10.  $563 \div 10 =$  \_\_\_\_\_      11.  $726 \div 100 =$  \_\_\_\_\_      12.  $483 \div 1,000 =$  \_\_\_\_\_

Use 10, 100, or 1,000 to make each division statement true.

13.  $45.7 \div$  \_\_\_\_\_  $= 0.457$       14.  $73.5 \div$  \_\_\_\_\_  $= 7.35$       15.  $6.46 \div$  \_\_\_\_\_  $= 0.0646$

16.  $237 \div$  \_\_\_\_\_  $= 0.237$       17.  $9.61 \div$  \_\_\_\_\_  $= 0.961$       18.  $78.9 \div$  \_\_\_\_\_  $= 7.89$

19.  $364.2 \div$  \_\_\_\_\_  $= 3.642$

20.  $20.63 \div$  \_\_\_\_\_  $= 0.02063$

Find each quotient.

21.  $0.36 \div 10 =$  \_\_\_\_\_

22.  $0.75 \div 10 =$  \_\_\_\_\_

23.  $0.32 \div 100 =$  \_\_\_\_\_

24.  $0.97 \div 100 =$  \_\_\_\_\_

25.  $196.8 \div 100 =$  \_\_\_\_\_

26.  $567.3 \div 1,000 =$  \_\_\_\_\_

27.  $86.4 \div 1,000 =$  \_\_\_\_\_

28.  $70.9 \div 10 =$  \_\_\_\_\_

**Dividing Decimals by 10, 100, and 1,000****CRITICAL THINKING AND PROBLEM SOLVING**

Use the given numbers to write a correct decimal division statement.

29.  $236.4 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

10	0.02364
100	2.364
1,000	236.4

30.  $75.04 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

10	7,504
100	750.4
1,000	0.07504

31.  $76.93 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

10	0.007693
100	7.693
1,000	769.3

32.  $73.09 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

10	0.7309
100	730.9
1,000	0.007309

33.  $7,563 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

10	0.7563
100	7.563
1,000	75,630

34.  $798.7 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

10	7,987.0
100	0.07987
1,000	7.987

35. Lake Michigan is the fifth largest lake in the world. It has an area of  $(222,780 \div 10)$  square miles. Evaluate the expression to find the area.

The area of Lake Michigan is \_\_\_\_\_ square miles.

36. Aswan, Egypt is the driest place in the world where people live. It receives  $(2 \div 100)$  inch of rain per year. Evaluate the expression to find the annual rainfall.

Aswan, Egypt receives \_\_\_\_\_ inch of rain each year.

37. Marquette, Michigan receives  $(12,920 \div 100)$  inches of snow each year. Evaluate the expression to find the annual snowfall.

Marquette receives \_\_\_\_\_ inches of snow each year.

38. A common shrew weighs about  $(11.25 \div 1,000)$  pound. It is one of the smallest mammals. Evaluate the expression to find its weight.

A common shrew weighs \_\_\_\_\_ pound.

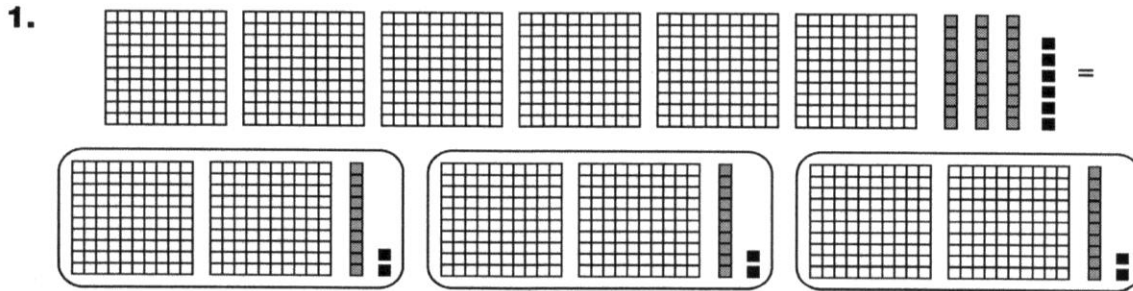
39. A brown bat is about  $(13.3 \div 100)$  foot in length. Evaluate the expression to find its length.

A little brown bat is \_\_\_\_\_ foot in length.

## Dividing Decimals by Whole Numbers

### SKILLS

Use the model to solve the division problem.



$6.36 \div 3 = \underline{\hspace{2cm}}$

Find each quotient.

2.  $3 \overline{)0.9}$

3.  $6 \overline{)2.4}$

4.  $4 \overline{)8.4}$

5.  $5 \overline{)25.5}$

6.  $2 \overline{)68.6}$

7.  $11 \overline{)7.7}$

8.  $9 \overline{)5.4}$

9.  $7 \overline{)25.2}$

10.  $2 \overline{)19.4}$

11.  $12 \overline{)10.8}$

12.  $4 \overline{)1.48}$

13.  $6 \overline{)0.36}$

14.  $7 \overline{)0.35}$

15.  $8 \overline{)33.04}$

16.  $9 \overline{)0.72}$

17.  $5 \overline{)11.75}$

18.  $3 \overline{)12.63}$

19.  $2 \overline{)64.28}$

20.  $9 \overline{)30.24}$

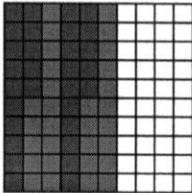
21.  $4 \overline{)26.56}$



## Dividing Decimals by Whole Numbers

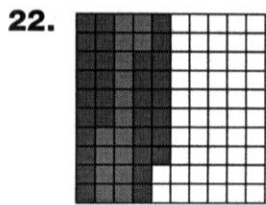
### CRITICAL THINKING AND PROBLEM SOLVING

Write and solve the division problem that is shown by each decimal model.

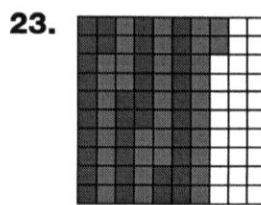


**Clue:** Count the total number of hundredth squares that are colored in the decimal model. In the model at the left, there are 60 colored squares. Because each square is  $\frac{1}{100}$ , the sixty squares equal 0.60. They are divided into four different groups, so you divide by four. Now, count the number of squares in each group. There are fifteen, so the quotient is 0.15.

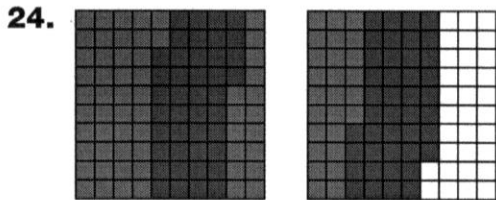
$$\boxed{0.60} \div \boxed{4} = \boxed{0.15}$$



$$\boxed{\phantom{0.40}} \div \boxed{\phantom{4}} = \boxed{\phantom{0.15}}$$



$$\boxed{\phantom{0.50}} \div \boxed{\phantom{4}} = \boxed{\phantom{0.15}}$$



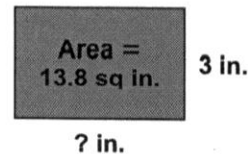
$$\boxed{\phantom{1.00}} \div \boxed{\phantom{2}} = \boxed{\phantom{0.50}}$$

25. Your team is buying a gift for your softball coach that costs \$87.75. If nine people on the team share the cost, what will each person pay?

Each person will pay \_\_\_\_\_.

26. What is the length of the rectangle?

The length of the rectangle is \_\_\_\_\_ inches.



27. You ran 13.75 miles this week. If you ran the same distance each day for 5 days, how far did you run each day?

You ran \_\_\_\_\_ miles each day.

Name \_\_\_\_\_

5.NBT.7

## Finding Decimal Quotients

### SKILLS

Find each quotient.

1.  $5 \overline{)7}$

2.  $4 \overline{)1}$

3.  $2 \overline{)9}$

4.  $6 \overline{)15}$

5.  $30 \overline{)27}$

6.  $12 \overline{)81}$

7.  $15 \overline{)36}$

8.  $5 \overline{)56}$

9.  $14 \overline{)49}$

10.  $6 \overline{)33}$

11.  $4 \overline{)27}$

12.  $16 \overline{)46}$

13.  $8 \overline{)65}$

14.  $8 \overline{)23}$

15.  $20 \overline{)48}$

16. Find the quotient of 152 and 5.

$$5 \overline{)152}$$

17. Which expression could be used to check your answer to question 16?

- a.  $152 \times 5$
- b.  $3.4 \times 5$
- c.  $30.4 \times 5$
- d.  $3.4 \times 152$

18. Divide 93 by 6.

$$6 \overline{)93}$$

19. Which expression could be used to check your answer to question 18?

- a.  $155 \times 6$
- b.  $15 \times 6$
- c.  $93 \times 6$
- d.  $6 \times 15.5$

## Finding Decimal Quotients

### CRITICAL THINKING AND PROBLEM SOLVING

Grocery stores often advertise prices as 2 for a certain price, or 3 for a certain price. To decide whether the price is a good buy, you may want to figure out how much one item costs. Decimal division is used to do that. Find prices for one of each item listed below.

20. 12 ounce bowls of whipped topping

Price: 2 for \$3

Cost for 1 = \_\_\_\_\_

22. 21 ounce cheese or pepperoni pizza

Price: 2 for \$4

Cost for 1 = \_\_\_\_\_

24. 16 ounce bottles of iced tea

Price: 4 for \$2

Cost for 1 = \_\_\_\_\_

26. Frozen dinners

Price: 5 for \$6

Cost for 1 = \_\_\_\_\_

21. 12 ounce cans of orange juice

Price: 4 for \$5

Cost for 1 = \_\_\_\_\_

23. 16 ounce box of graham crackers

Price: 2 for \$5

Cost for 1 = \_\_\_\_\_

25. Lawn & leaf bags — 10 count box

Price: \$3

Cost for 1 = \_\_\_\_\_

27. Boxes of gelatin

Price: 8 for \$2

Cost for 1 = \_\_\_\_\_

Find the missing number in each division problem.

28.  $\square \overline{) 5.6} \begin{array}{r} 0.7 \\ \end{array}$

29.  $\square \overline{) 3.0} \begin{array}{r} 0.5 \\ \end{array}$

30.  $\square \overline{) 2.7} \begin{array}{r} 0.3 \\ \end{array}$

31.  $\square \overline{) 6.3} \begin{array}{r} 0.7 \\ \end{array}$

32.  $\square \overline{) 4.5} \begin{array}{r} 0.5 \\ \end{array}$

33.  $\square \overline{) 6.4} \begin{array}{r} 0.8 \\ \end{array}$

34.  $\square \overline{) 4.9} \begin{array}{r} 0.7 \\ \end{array}$

35.  $\square \overline{) 8.1} \begin{array}{r} 0.9 \\ \end{array}$

36.  $\square \overline{) 4.8} \begin{array}{r} 0.6 \\ \end{array}$

37.  $\square \overline{) 4.2} \begin{array}{r} 0.6 \\ \end{array}$

38.  $\square \overline{) 5.4} \begin{array}{r} 0.9 \\ \end{array}$

39.  $\square \overline{) 3.6} \begin{array}{r} 0.6 \\ \end{array}$

Name \_\_\_\_\_

5.NBT.7

## More on Dividing Decimals by Whole Numbers

### SKILLS

For each division problem, show your work in the space provided.

1. Divide 3.792  
by 6.

2. Divide 3.213  
by 7.

3. Divide 3.515  
by 5.

4. Divide 3.296  
by 4.

5. Divide 5.484  
by 6.

6. Divide 2.658  
by 3.

7. Divide 4.344  
by 6.

8. Divide 9.704  
by 8.

Find each quotient. Show your work on a separate piece of paper.

9.  $5 \overline{) 11.825}$

10.  $3 \overline{) 9.372}$

11.  $4 \overline{) 10.612}$

12.  $2 \overline{) 8.282}$

13.  $9 \overline{) 19.206}$

14.  $3 \overline{) 12.711}$

15.  $3 \overline{) 22.068}$

16.  $6 \overline{) 21.744}$

Name \_\_\_\_\_

## More on Dividing Decimals by Whole Numbers

### CRITICAL THINKING AND PROBLEM SOLVING

17. How many boards are in a 9-inch pile if each one is 0.75 inch thick?  
There are \_\_\_\_\_ boards.
18. A stack of 8 textbooks measures 11.8 inches high. How thick is each book?  
Each textbook is \_\_\_\_\_ inches thick.
19. A row of 50 pennies is 3.125 feet long. How wide is each penny?  
Each penny is \_\_\_\_\_ foot wide.
20. A bag containing 40 sweet cherries weighs 1.3 pounds. What is the approximate weight of each cherry?  
The weight of each cherry is about \_\_\_\_\_ pound.
21. You bought 6 chicken breasts in a package that weighed 1.26 pounds. About how much did each one weigh?  
Each chicken breast weighed about \_\_\_\_\_ pound.

**Is the decimal point in the correct place in each quotient? If you answer NO, tell what the correct answer should be and how you decided where to put the decimal point.**

22.  $40.5$  YES \_\_\_\_\_  
 $6 \overline{) 24.30}$  NO \_\_\_\_\_
23.  $2.3$  YES \_\_\_\_\_  
 $8 \overline{) 18.4}$  NO \_\_\_\_\_
24.  $1.7$  YES \_\_\_\_\_  
 $8 \overline{) 1.36}$  NO \_\_\_\_\_
25.  $2.34$  YES \_\_\_\_\_  
 $5 \overline{) 1.17}$  NO \_\_\_\_\_
26.  $13.2$  YES \_\_\_\_\_  
 $8 \overline{) 10.56}$  NO \_\_\_\_\_

Name \_\_\_\_\_

5.NBT.7

## Dividing Decimals Through Hundredths

### SKILLS

Find each quotient.

1.  $0.4 \overline{) 3.2}$

Rewrite the divisor as a whole number.  
Divide as you would divide whole numbers.  
Place decimal point in quotient.

2.  $1.2 \overline{) 4.32}$

3.  $0.9 \overline{) 5.04}$

4.  $0.6 \overline{) 1.62}$

5.  $0.25 \overline{) 4.1}$

6.  $0.11 \overline{) 9.9}$

7.  $0.9 \overline{) 20.52}$

8.  $0.5 \overline{) 15.22}$

9.  $2.4 \overline{) 0.3}$

10.  $0.6 \overline{) 7.5}$

11.  $0.12 \overline{) 0.9}$

12.  $0.03 \overline{) 3.66}$

13.  $0.07 \overline{) 45.5}$

14.  $1.1 \overline{) 9.57}$

15.  $0.35 \overline{) 0.7}$

16.  $1.3 \overline{) 0.65}$

17.  $1.5 \overline{) 10.5}$