Adding Decimals (Adding Zeros)

Find each sum.

1. \[ 3.02 \quad + \quad 0.8 \]
2. \[ 0.91 \quad + \quad 4.0 \]
3. \[ 2.6 \quad + \quad 5.07 \]
4. \[ 5.9 \quad + \quad 2.08 \]
5. \[ 4.16 \quad + \quad 3.5 \]
6. \[ 9.36 \quad + \quad 0.4 \]
7. \[ 6.0 \quad + \quad 1.38 \]
8. \[ 12.03 \quad + \quad 3.9 \]
9. \[ 0.3 \quad + \quad 1.47 \]
10. \[ 6.2 \quad + \quad 0.84 \]
11. \[ 2.6 \quad + \quad 0.12 \]
12. \[ 3.2 \quad + \quad 0.08 \]
13. \[ 1.8 \quad + \quad 7.45 \]
14. \[ 3.64 \quad + \quad 1.7 \]
15. \[ 4.97 \quad + \quad 3.5 \]
16. \[ 2.61 \quad + \quad 0.8 \]
17. \[ 11.8 \quad + \quad 9.07 \]
18. \[ 0.72 \quad + \quad 3.9 \]
19. \[ 2.43 \quad + \quad 1.8 \]
20. \[ 6.85 \quad + \quad 2.8 \]
21. \[ 18.23 \quad + \quad 27.3 \]
22. \[ 29.2 \quad + \quad 4.08 \]
23. \[ 5.7 \quad + \quad 17.03 \]
24. \[ 4.0 \quad + \quad 10.44 \]

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 = __________

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.

1. \[8.6 \quad + \quad 2.4\] 
   \[8.6 + 0.09 = 8.69\]

2. \[2.09 \quad + \quad 1.47\] 
   \[2.09 + 1.47 = 3.56\]

3. \[7.4 \quad + \quad 3.5\] 
   \[7.4 + 3.5 = 10.9\]

4. \[3.7 \quad + \quad 4.28\] 
   \[3.7 + 4.28 = 7.98\]

5. \[4.08 \quad + \quad 3.25\] 
   \[4.08 + 3.25 = 7.33\]

6. \[3.6 \quad + \quad 5.09\] 
   \[3.6 + 5.09 = 8.69\]

7. \[3.04 \quad + \quad 2.06\] 
   \[3.04 + 2.06 = 5.1\]

8. \[53 \quad + \quad 8.91\] 
   \[53 + 8.91 = 61.91\]

9. \[8.37 \quad + \quad 4.21\] 
   \[8.37 + 4.21 = 12.58\]

10. \[7.72 \quad + \quad 6.47\] 
    \[7.72 + 6.47 = 14.19\]

11. \[6.8 \quad + \quad 3.4\] 
    \[6.8 + 3.4 = 10.2\]

12. \[0.28 \quad + \quad 2.4\] 
    \[0.28 + 2.4 = 2.68\]

13. \[26.18 \quad + \quad 31\] 
    \[26.18 + 31 = 57.18\]

14. \[10.09 \quad + \quad 43.9\] 
    \[10.09 + 43.9 = 53.99\]

15. \[1.25 \quad + \quad 4.38\] 
    \[1.25 + 4.38 = 5.63\]

16. \[13.74 \quad + \quad 49.6\] 
    \[13.74 + 49.6 = 63.34\]

17. \[125 \quad + \quad 426.9\] 
    \[125 + 426.9 = 551.9\]

18. \[70.4 \quad + \quad 9.9\] 
    \[70.4 + 9.9 = 70.3\]

19. \[981.6 \quad + \quad 107.5\] 
    \[981.6 + 107.5 = 1089.1\]

20. \[109.4 \quad + \quad 94.7\] 
    \[109.4 + 94.7 = 204.1\]

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.

Adding More Than Two Decimals

CRITICAL THINKING AND PROBLEM SOLVING

Use the table to answer questions 25–27.

<table>
<thead>
<tr>
<th>GROCERY PRICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cereal $3.29</td>
</tr>
<tr>
<td>Soup $0.96</td>
</tr>
<tr>
<td>Grapes $1.47</td>
</tr>
<tr>
<td>Rolls $1.39</td>
</tr>
<tr>
<td>Lettuce $0.99</td>
</tr>
<tr>
<td>Ground beef $4.32</td>
</tr>
<tr>
<td>Cheese $2.39</td>
</tr>
<tr>
<td>Milk $2.36</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>ITEM</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOTAL COST

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

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

Find the missing number in each addition problem.

28. \[23.00 + \quad = 116.35\]

29. \[45.89 + \quad = 134.05\]

30. \[69.32 + \quad = 89.86\]

31. \[78.59 + \quad = 89.80\]

32. \[63.87 + \quad = 68.97\]

33. \[99.99 + \quad = 125.33\]

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.
## Adding Decimals Through Thousandths

Find each sum.

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>6.78</td>
<td>+</td>
<td>0.436</td>
</tr>
<tr>
<td>2.</td>
<td>0.847</td>
<td>+</td>
<td>0.27</td>
</tr>
<tr>
<td>3.</td>
<td>0.552</td>
<td>+</td>
<td>1.473</td>
</tr>
<tr>
<td>4.</td>
<td>9.98</td>
<td>+</td>
<td>1.259</td>
</tr>
<tr>
<td>5.</td>
<td>4.934</td>
<td>+</td>
<td>0.085</td>
</tr>
<tr>
<td>6.</td>
<td>7.536</td>
<td>+</td>
<td>68.7</td>
</tr>
<tr>
<td>7.</td>
<td>32.856</td>
<td>+</td>
<td>109.23</td>
</tr>
<tr>
<td>8.</td>
<td>762.9</td>
<td>+</td>
<td>158.556</td>
</tr>
<tr>
<td>9.</td>
<td>28.8</td>
<td>+</td>
<td>3.497</td>
</tr>
<tr>
<td>10.</td>
<td>278</td>
<td>+</td>
<td>37.634</td>
</tr>
<tr>
<td>11.</td>
<td>67.489</td>
<td>+</td>
<td>109.6</td>
</tr>
<tr>
<td>12.</td>
<td>3.92</td>
<td>+</td>
<td>8.087</td>
</tr>
</tbody>
</table>

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

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>13.</td>
<td>Add 42.329, 45.361, and 93.215.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.</td>
<td>Add 5.376, 42.75, and 56.304.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15.</td>
<td>Add 0.439, 59, and 42.36.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17.</td>
<td>Find the sum of 21.6, 35.093, and 4.72.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.</td>
<td>Find the sum of 436.27, 94.432, and 235.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.</td>
<td>Find the sum of 94.706, 42.7, and 5.69.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Adding Decimals Through Thousandths

CRITICAL THINKING AND PROBLEM SOLVING

Choose the best answer.

21. \[ 2.\overline{?} \]
\[ + 3.\overline{?} \]

a. The sum is between 5 and 6.

b. The sum is between 6 and 7.

c. The sum is between 5 and 7.

d. The sum is between 6 and 8.

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.

22. \[ 2.\overline{?} \]
\[ + 2.\overline{?} \]

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.

23. \[ 0.\overline{?} \]
\[ + 1.\overline{?} \]

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.

24. \[ 1.\overline{?} \]
\[ + 2.\overline{?} \]

a. The sum is between 3 and 5.

b. The sum is between 3 and 4.

c. The sum is between 4 and 5.

d. The sum is between 4 and 7.

25. \[ 4.\overline{?} \]
\[ + 5.\overline{?} \]

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 \[ \underline{\text{}} \] \underline{\text{}} \underline{\text{}} \text{ 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 \[ \underline{\text{}} \] \underline{\text{}} \underline{\text{}} \text{ 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 \[ \underline{\text{}} \] \underline{\text{}} \underline{\text{}} \text{ 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 \[ \underline{\text{}} \] \underline{\text{}} \underline{\text{}} \text{ miles in three days.}
Subtracting Decimals (Regrouping)

Find each difference.

1. \[4.3 - 1.7 = 2.6\]
2. \[2.4 - 0.8 = 1.6\]
3. \[1.6 - 0.9 = 0.7\]
4. \[2.45 - 1.6 = 0.85\]
5. \[9.11 - 3.05 = 6.06\]
6. \[4.02 - 1.3 = 2.72\]
7. \[5.7 - 4.8 = 0.9\]
8. \[3.6 - 1.7 = 1.9\]
9. \[16.01 - 4.8 = 11.21\]
10. \[3.07 - 0.4 = 2.67\]
11. \[1.18 - 0.3 = 0.88\]
12. \[25.32 - 9.1 = 16.22\]
13. \[12.4 - 9.8 = 2.6\]
14. \[15.6 - 8.7 = 6.9\]
15. \[1.32 - 0.94 = 0.38\]
16. \[8.21 - 1.85 = 6.36\]
17. \[38.31 - 9.6 = 28.71\]
18. \[42.16 - 8.3 = 33.86\]
19. \[22.91 - 3.07 = 19.84\]
20. \[5.12 - 0.19 = 4.93\]
21. \[51.32 - 1.52 = 49.8\]
22. \[23.24 - 16.7 = 6.54\]
23. \[62.5 - 23.8 = 38.7\]
24. \[81.24 - 66.9 = 14.34\]

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. \[ \begin{array}{c}
456.8 \\
- 26.59 \\
\hline
19.01
\end{array} \]

32. \[ \begin{array}{c}
423.7 \\
- 156.8 \\
\hline
257.9
\end{array} \]

33. \[ \begin{array}{c}
82.3 \\
- 2.56 \\
\hline
5.67
\end{array} \]

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

<table>
<thead>
<tr>
<th>Animal</th>
<th>Speed (kph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cheetah</td>
<td>112.63</td>
</tr>
<tr>
<td>Wildebeest</td>
<td>80.45</td>
</tr>
<tr>
<td>Gray fox</td>
<td>67.58</td>
</tr>
<tr>
<td>Greyhound dog</td>
<td>63.31</td>
</tr>
<tr>
<td>Quarter horse</td>
<td>76.43</td>
</tr>
<tr>
<td>Zebra</td>
<td>64.36</td>
</tr>
<tr>
<td>Grizzly bear</td>
<td>48.27</td>
</tr>
<tr>
<td>Lion</td>
<td>80.45</td>
</tr>
</tbody>
</table>

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.
Subtracting Decimals Through Thousandths

Find each difference.

1. $16 - 4.95$
   \[11.05\]
2. $12 - 11.63$
   \[0.37\]
3. $27 - 6.451$
   \[20.549\]
4. $32.1 - 3.053$
   \[29.047\]
5. $4.6 - 1.394$
   \[3.206\]
6. $60 - 2.316$
   \[57.684\]
7. $41 - 13.821$
   \[27.179\]
8. $7 - 1.815$
   \[5.185\]
9. $3.02 - 1.265$
   \[1.755\]
10. $0.8 - 0.643$
    \[0.157\]
11. $30.026 - 6.7$
    \[23.326\]
12. $12.657 - 4.039$
    \[8.618\]
13. $28.1 - 9.39$
    \[18.71\]
14. $15 - 8.273$
    \[6.727\]
15. $1 - 0.98$
    \[0.02\]
16. $21.06 - 14.353$
    \[6.707\]
17. $31 - 6.776$
    \[24.224\]
18. $51.284 - 7.9$
    \[43.384\]
19. $32.1 - 8.473$
    \[23.627\]
20. $9.314 - 6.537$
    \[2.777\]
21. $70.084 - 9.3$
    \[60.784\]
22. $20.437 - 0.7$
    \[19.737\]
23. $2.025 - 0.25$
    \[1.775\]
24. $7.064 - 1.391$
    \[5.673\]

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

27. Subtract $0.463$ from $0.8.$
28. Subtract $0.645$ from $1.3.$
Subtracting Decimals Through Thousandths

--- CRITICAL THINKING AND PROBLEM SOLVING ---

Use the table to answer questions 29–32.

<table>
<thead>
<tr>
<th>Standard Diameters for U.S. Coins</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Coin</td>
<td>Diameter (in inches)</td>
</tr>
<tr>
<td>Penny</td>
<td>0.75</td>
</tr>
<tr>
<td>Nickel</td>
<td>0.835</td>
</tr>
<tr>
<td>Dime</td>
<td>0.705</td>
</tr>
<tr>
<td>Quarter</td>
<td>0.955</td>
</tr>
<tr>
<td>Half Dollar</td>
<td>1.205</td>
</tr>
<tr>
<td>Dollar</td>
<td>1.04</td>
</tr>
<tr>
<td>Golden Dollar</td>
<td>1.043</td>
</tr>
</tbody>
</table>

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.  526.23  
    -  258.736  
    ________  

34.  89.573  
    -  28.949  
    ________  

35.  123.65  
    -  56.873  
    ________  

36.  298.361  
    -  165.876  
    ________  

Find the missing number in each subtraction problem.

37.  69.32  
    -   ___   
    42.31

38.  78.59  
    -   ___   
    63.63

39.  41.63  
    -   ___   
    27.34

40.  86.11  
    -   ___   
    33.59

41.  63.87  
    -   ___   
    20.38

42.  99.99  
    -   ___   
    29.61

43.  63.25  
    -   ___   
    41.35

44.  55.04  
    -   ___   
    52.62
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. \(426.95 \times 10 = \) 
6. \(3.425 \times 1,000 = \)

7. \(0.59 \times 100 = \)
8. \(49.6 \times 10 = \)
9. \(3.042 \times 1,000 = \)
10. \(75.436 \times 100 = \)

Find each product.

11. \(0.82 \times 10 = \)
12. \(1.34 \times 10 = \)
13. \(100 \times 0.21 = \)
14. \(6.93 \times 100 = \)

15. \(1,000 \times 3.28 = \)
16. \(100 \times 6.4 = \)
17. \(7.46 \times 10 = \)
18. \(3.82 \times 1,000 = \)

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

Use the models to find each product.

1. $0.8 \times 3 = \square$
2. $0.4 \times 4 = \square$
3. $1.2 \times 4 = \square$

Find each product.

4. $0.4 \times 6$
5. $0.9 \times 5$
6. $0.7 \times 8$
7. $2.3 \times 7$
8. $3.6 \times 9$
9. $6.1 \times 2$
10. $5.6 \times 3$
11. $7.9 \times 6$
12. $8.3 \times 4$
13. $4.7 \times 3$
14. $9.1 \times 12$
15. $7.4 \times 32$
16. $2.6 \times 24$
17. $5.8 \times 16$
18. $0.5 \times 47$
19. $0.61 \times 7$
20. $0.83 \times 4$
21. $0.26 \times 2$
22. $1.38 \times 6$
23. $1.94 \times 8$
24. $6.92 \times 3$
25. $4.07 \times 6$
26. $3.49 \times 21$
27. $6.04 \times 62$
28. $9.22 \times 13$
29. $2.18 \times 36$
30. $12.36 \times 5$
31. $26.12 \times 15$
32. $17.38 \times 9$
33. $47.08 \times 2$
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.
Multiplying Decimals Through Hundredths

SKILLS

1. Multiply 1.3 times 0.9.

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. \[ \begin{array}{c} 3.6 \\ \times 1.4 \end{array} \]

9. \[ \begin{array}{c} 8.5 \\ \times 7.9 \end{array} \]

10. \[ \begin{array}{c} 1.2 \\ \times 1.2 \end{array} \]

11. \[ \begin{array}{c} 2.37 \\ \times 3.3 \end{array} \]

12. \[ \begin{array}{c} 7.37 \\ \times 0.2 \end{array} \]

13. \[ \begin{array}{c} 1.05 \\ \times 0.9 \end{array} \]

14. \[ \begin{array}{c} 3.07 \\ \times 6.2 \end{array} \]

15. \[ \begin{array}{c} 0.5 \\ \times 0.4 \end{array} \]

16. \[ \begin{array}{c} 0.54 \\ \times 0.7 \end{array} \]

17. \[ \begin{array}{c} 0.82 \\ \times 2.8 \end{array} \]

18. \[ \begin{array}{c} 0.04 \\ \times 3.6 \end{array} \]

19. \[ \begin{array}{c} 7.05 \\ \times 0.8 \end{array} \]
Multiplying Decimals Through Hundredths

CRITICAL THINKING AND PROBLEM SOLVING

Write the multiplication problem that is shown by each model.

20. \( \quad \times \quad = \quad \)
21. \( \quad \times \quad = \quad \)

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 \( \quad \) 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 \( \quad \) 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 \( \quad \).

Enter the missing number in each multiplication problem.

25. \( 3.5 \times \quad = 10.5 \)
26. \( 6.7 \times \quad = 40.2 \)
27. \( 0.25 \times \quad = 1.25 \)
28. \( 2.3 \times \quad = 0.69 \)
29. \( 1.24 \times \quad = 2.48 \)
30. \( 4.3 \times \quad = 12.9 \)
31. \( 0.08 \times \quad = 0.072 \)
32. \( 5.4 \times \quad = 21.6 \)
Multiplying Decimals with Zeros in the Product

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. $0.13 \times 0.06$  
8. $0.21 \times 0.06$  
9. $2.41 \times 0.03$  
10. $0.96 \times 0.04$  
11. $0.16 \times 0.09$

12. $0.31 \times 0.08$  
13. $0.09 \times 0.09$  
14. $1.03 \times 0.06$  
15. $1.3 \times 0.06$  
16. $0.32 \times 0.04$

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. \( 45.6 \times 2.07 \)
24. \( 2.05 \times 5.18 \)
25. \( 16.8 \times 2.79 \)
26. \( 6.24 \times 35.4 \)

27. \( 0.26 \times 6.4 \)
28. \( 4.67 \times 25.4 \)
29. \( 2.31 \times 6.7 \)
30. \( 8.98 \times 0.56 \)

31. \( 36.12 \times 3.9 \)
32. \( 15.68 \times 4.91 \)
33. \( 12.34 \times 26.5 \)
34. \( 89.6 \times 1.35 \)

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.

<table>
<thead>
<tr>
<th></th>
<th>Estimate</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>4.961 →</td>
<td>0.42 →</td>
<td></td>
<td>5.11 →</td>
</tr>
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<tr>
<td>2.</td>
<td>4.936 →</td>
<td>4.14 →</td>
<td></td>
<td>5.17 →</td>
</tr>
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<td></td>
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<td></td>
</tr>
<tr>
<td>3.</td>
<td>10.836 →</td>
<td>2.34 →</td>
<td></td>
<td>12.42 →</td>
</tr>
</tbody>
</table>

Find each product.

<p>| | | | | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>7.</td>
<td>7.293</td>
<td>0.06</td>
<td></td>
<td>0.06 →</td>
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<tr>
<td>8.</td>
<td>5.082</td>
<td>0.09</td>
<td></td>
<td>0.09 →</td>
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<tr>
<td>9.</td>
<td>1.375</td>
<td>0.05</td>
<td></td>
<td>0.05 →</td>
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<td></td>
<td></td>
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<tr>
<td>10.</td>
<td>0.493</td>
<td></td>
<td></td>
<td>0.493 →</td>
</tr>
</tbody>
</table>

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<table>
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</thead>
<tbody>
<tr>
<td>11.</td>
<td>6.482</td>
<td>0.25</td>
<td></td>
<td>0.25 →</td>
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<tr>
<td>12.</td>
<td>1.574</td>
<td>0.93</td>
<td></td>
<td>0.93 →</td>
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<tr>
<td>13.</td>
<td>3.075</td>
<td>0.55</td>
<td></td>
<td>0.55 →</td>
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<tr>
<td>14.</td>
<td>0.873</td>
<td></td>
<td></td>
<td>0.873 →</td>
</tr>
</tbody>
</table>

Put the decimal in the correct place in each product.

<p>| | | | | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>15.</td>
<td>8.61</td>
<td>3.72</td>
<td></td>
<td>32.0292 →</td>
</tr>
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<tr>
<td>16.</td>
<td>2.072</td>
<td>3.61</td>
<td></td>
<td>7.47992 →</td>
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<tr>
<td>17.</td>
<td>7.732</td>
<td>2.32</td>
<td></td>
<td>17.93824 →</td>
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<td></td>
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<td></td>
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<tr>
<td>18.</td>
<td>9.084</td>
<td></td>
<td></td>
<td>51.05208 →</td>
</tr>
</tbody>
</table>

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<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>19.</td>
<td>9.371</td>
<td>3.08</td>
<td></td>
<td>28.86268 →</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.</td>
<td>0.873</td>
<td>2.2</td>
<td></td>
<td>19.206 →</td>
</tr>
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<td></td>
</tr>
<tr>
<td>21.</td>
<td>2.365</td>
<td>24.3</td>
<td></td>
<td>57.4695 →</td>
</tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>22.</td>
<td>0.736</td>
<td></td>
<td></td>
<td>15.6768 →</td>
</tr>
</tbody>
</table>
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.  12.6  YES
    \times 6.5  NO
    \hline
    8.190

24.  3.65  YES
    \times 12.7  NO
    \hline
    4635.5

25.  62.4  YES
    \times 0.46  NO
    \hline
    287.04

26.  0.627  YES
    \times 0.058  NO
    \hline
    0.036366

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

**SKILLS**

<table>
<thead>
<tr>
<th>Divide by 10</th>
<th>Divide by 100</th>
<th>Divide by 1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Move decimal point one place to the left.</td>
<td>Move decimal point two places to the left.</td>
<td>Move decimal point three places to the left.</td>
</tr>
</tbody>
</table>

Use mental math to find each quotient.

1. $0.63 \div 10 = \underline{\hphantom{0}}$
2. $0.63 \div 100 = \underline{\hphantom{0}}$
3. $0.63 \div 1,000 = \underline{\hphantom{0}}$

4. $23.7 \div 10 = \underline{\hphantom{0}}$
5. $23.7 \div 100 = \underline{\hphantom{0}}$
6. $23.7 \div 1,000 = \underline{\hphantom{0}}$

7. $4.6 \div 10 = \underline{\hphantom{0}}$
8. $23.6 \div 100 = \underline{\hphantom{0}}$
9. $42.7 \div 1,000 = \underline{\hphantom{0}}$

10. $563 \div 10 = \underline{\hphantom{0}}$
11. $726 \div 100 = \underline{\hphantom{0}}$
12. $483 \div 1,000 = \underline{\hphantom{0}}$

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

13. $45.7 \div \underline{\hphantom{0}} = 0.457$
14. $73.5 \div \underline{\hphantom{0}} = 7.35$
15. $6.46 \div \underline{\hphantom{0}} = 0.0646$

16. $237 \div \underline{\hphantom{0}} = 0.237$
17. $9.61 \div \underline{\hphantom{0}} = 0.961$
18. $78.9 \div \underline{\hphantom{0}} = 7.89$

19. $364.2 \div \underline{\hphantom{0}} = 3.642$
20. $20.63 \div \underline{\hphantom{0}} = 0.02063$

Find each quotient.

21. $0.36 \div 10 = \underline{\hphantom{0}}$
22. $0.75 \div 10 = \underline{\hphantom{0}}$

23. $0.32 \div 100 = \underline{\hphantom{0}}$
24. $0.97 \div 100 = \underline{\hphantom{0}}$

25. $196.8 \div 100 = \underline{\hphantom{0}}$
26. $567.3 \div 1,000 = \underline{\hphantom{0}}$

27. $86.4 \div 1,000 = \underline{\hphantom{0}}$
28. $70.9 \div 10 = \underline{\hphantom{0}}$
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. \(236.4 \div \underline{\phantom{0}} = \underline{\phantom{0}}\)
   \[10 \quad 0.02364\]
   \[100 \quad 2.364\]
   \[1,000 \quad 236.4\]

30. \(75.04 \div \underline{\phantom{0}} = \underline{\phantom{0}}\)
   \[10 \quad 7,504\]
   \[100 \quad 750.4\]
   \[1,000 \quad 0.07504\]

31. \(76.93 \div \underline{\phantom{0}} = \underline{\phantom{0}}\)
   \[10 \quad 0.007693\]
   \[100 \quad 7.693\]
   \[1,000 \quad 769.3\]

32. \(73.09 \div \underline{\phantom{0}} = \underline{\phantom{0}}\)
   \[10 \quad 0.7309\]
   \[100 \quad 730.9\]
   \[1,000 \quad 0.007309\]

33. \(7,563 \div \underline{\phantom{0}} = \underline{\phantom{0}}\)
   \[10 \quad 0.7563\]
   \[100 \quad 7.563\]
   \[1,000 \quad 75,630\]

34. \(798.7 \div \underline{\phantom{0}} = \underline{\phantom{0}}\)
   \[10 \quad 7,987.0\]
   \[100 \quad 798.7\]
   \[1,000 \quad 0.07987\]

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 \underline{\phantom{0}} 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 \underline{\phantom{0}} 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 \underline{\phantom{0}} 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 \underline{\phantom{0}} 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 \underline{\phantom{0}} foot in length.
Dividing Decimals by Whole Numbers

**SKILLS**

Use the model to solve the division problem.

1. \[ \begin{array}{cccccccc}
\text{ } & \text{ } & \text{ } & \text{ } & \text{ } & \text{ } & \text{ } & \text{ } \\
\text{ } & \text{ } & \text{ } & \text{ } & \text{ } & \text{ } & \text{ } & \text{ } \\
\text{ } & \text{ } & \text{ } & \text{ } & \text{ } & \text{ } & \text{ } & \text{ } \\
\text{ } & \text{ } & \text{ } & \text{ } & \text{ } & \text{ } & \text{ } & \text{ } \\
\end{array} \]

6.36 ÷ 3 = 

Find each quotient.

2. \(3 \div 0.9\)  
3. \(6 \div 2.4\)  
4. \(4 \div 8.4\)  
5. \(5 \div 25.5\)  
6. \(2 \div 68.6\)

7. \(11 \div 7.7\)  
8. \(9 \div 5.4\)  
9. \(7 \div 25.2\)  
10. \(2 \div 19.4\)  
11. \(12 \div 10.8\)

12. \(4 \div 1.48\)  
13. \(6 \div 0.36\)  
14. \(7 \div 0.35\)  
15. \(8 \div 33.04\)  
16. \(9 \div 0.72\)

17. \(5 \div 11.75\)  
18. \(3 \div 12.63\)  
19. \(2 \div 64.28\)  
20. \(9 \div 30.24\)  
21. \(4 \div 26.56\)
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.

22. \[ \begin{array}{c|c|c|c|c|c} \hline \ & \ & \ & \ & \ & \ 0.60 \ \hline \end{array} \div \begin{array}{c|c|c} \hline 4 \ & \ & \ \hline \end{array} = \begin{array}{c|c|c|c|c} \hline \ & \ & \ & \ & \ 0.15 \ \hline \end{array} \]

23. 

24. 

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 \[ \text{__________}. \]

26. What is the length of the rectangle?

The length of the rectangle is \[ \text{__________} \text{ inches}. \]

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 \[ \text{__________} \text{ miles each day}. \]
Finding Decimal Quotients

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


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 =

21. 12 ounce cans of orange juice
   Price: 4 for $5
   Cost for 1 =

22. 21 ounce cheese or pepperoni pizza
   Price: 2 for $4
   Cost for 1 =

23. 16 ounce box of graham crackers
   Price: 2 for $5
   Cost for 1 =

24. 16 ounce bottles of iced tea
   Price: 4 for $2
   Cost for 1 =

25. Lawn & leaf bags — 10 count box
   Price: $3
   Cost for 1 =

26. Frozen dinners
   Price: 5 for $6
   Cost for 1 =

27. Boxes of gelatin
   Price: 8 for $2
   Cost for 1 =

Find the missing number in each division problem.

28. \[ \frac{0.7}{5.6} \]

29. \[ \frac{0.5}{3.0} \]

30. \[ \frac{0.3}{2.7} \]

31. \[ \frac{0.7}{6.3} \]

32. \[ \frac{0.5}{4.5} \]

33. \[ \frac{0.8}{6.4} \]

34. \[ \frac{0.7}{4.9} \]

35. \[ \frac{0.9}{8.1} \]

36. \[ \frac{0.6}{4.8} \]

37. \[ \frac{0.6}{4.2} \]

38. \[ \frac{0.9}{5.4} \]

39. \[ \frac{0.6}{3.6} \]
More on Dividing Decimals by Whole Numbers

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


5. Divide 5.484 by 6.

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

9. \(5 \div 11.825\)
10. \(3 \div 9.372\)
11. \(4 \div 10.612\)
12. \(2 \div 8.282\)

13. \(9 \div 19.206\)
14. \(3 \div 12.711\)
15. \(3 \div 22.068\)
16. \(6 \div 21.744\)
More on Dividing Decimals by Whole Numbers

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. \[
\begin{array}{c|c|c}
40.5 & YES & \\
\hline
6)24.30 & NO & \\
\end{array}
\]

23. \[
\begin{array}{c|c|c}
2.3 & YES & \\
\hline
8)18.4 & NO & \\
\end{array}
\]

24. \[
\begin{array}{c|c|c}
1.7 & YES & \\
\hline
8)1.36 & NO & \\
\end{array}
\]

25. \[
\begin{array}{c|c|c}
2.34 & YES & \\
\hline
5)1.17 & NO & \\
\end{array}
\]

26. \[
\begin{array}{c|c|c}
13.2 & YES & \\
\hline
8)10.56 & NO & \\
\end{array}
\]
Dividing Decimals Through Hundredths

**SKILLS**

Find each quotient.

1. \(0.4 \overline{) 3.2}\)

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. \(1.5 \overline{) 10.5}\)

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