

Name \_\_\_\_\_

**Review**  
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## Adding and Subtracting Decimals

Find  $1.7 + 2.45$ .

Find  $36.57 - 4.6$ .

<p><i>Line up the decimal points.</i></p> $\begin{array}{r} \downarrow \quad \uparrow \\ 1.7 \quad 1.70 \leftarrow \text{Write zeros to} \\ + 2.45 \quad + 2.45 \quad \text{show place value.} \\ \hline 4.15 \end{array}$ <p style="text-align: center;"><math>\uparrow</math> Place decimal point in answer.</p>	<p><i>Line up the decimal points.</i></p> $\begin{array}{r} \downarrow \quad \uparrow \quad \uparrow \\ 36.57 \quad 36.57 \\ - 4.6 \quad - 4.60 \leftarrow \text{Write zeros to} \\ \hline 31.97 \end{array}$ <p style="text-align: center;"><math>\uparrow</math> Place decimal point in answer.</p>
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Find each sum or difference.

1. 
$$\begin{array}{r} \downarrow \\ 2.65 \\ + 13.30 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} \downarrow \\ 14.10 \\ - 3.05 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 744 \\ + 36.2 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 9 \\ - 0.6 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 8.97 \\ + 66 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 100 \\ - 0.22 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 6.8 \\ + 237.29 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 0.5 \\ - 0.23 \\ \hline \end{array}$$

9.  $15.4 - 8 = \underline{\hspace{2cm}}$

10.  $3 - 2.54 = \underline{\hspace{2cm}}$

11.  $1.34 + 4.1 = \underline{\hspace{2cm}}$

12.  $133.01 - 5.6 = \underline{\hspace{2cm}}$

13.  $448 + 1.75 + 80.3 = \underline{\hspace{2cm}}$

14.  $12.3 + 0.61 + 100 = \underline{\hspace{2cm}}$

15. On the 3-days of their vacation, the Davis family traveled 417 mi, 45.3 mi, and 366.9 mi. How far did they travel all together?

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16. Etta bought a calculator for \$15. Glenn found the same model for \$9.79. How much more did Etta pay than Glenn did?

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# Multiplying with Decimals

Find  $4.3 \times 2.7$ .

*Multiply as you would with whole numbers.*

$$\begin{array}{r} 2 \\ 4.3 \\ \times 2.7 \\ \hline 301 \\ 860 \\ \hline 1161 \end{array}$$

*Count the number of decimal places in both factors. The total is the number of decimal places in the product.*

$$\begin{array}{r} 4.3 \leftarrow 1 \text{ decimal place} \\ \times 2.7 \leftarrow + 1 \text{ decimal place} \\ \hline 11.61 \leftarrow 2 \text{ decimal places} \end{array}$$

Find each product.

1.  $\begin{array}{r} 14 \\ \times 8.8 \\ \hline 112 \\ 1120 \end{array}$

2.  $\begin{array}{r} 1.6 \\ \times 9 \end{array}$

3.  $\begin{array}{r} 0.4 \\ \times 3.2 \end{array}$

4.  $\begin{array}{r} .0.05 \\ \times 0.3 \end{array}$

5.  $\begin{array}{r} 2.15 \\ \times 8.3 \end{array}$

6.  $\begin{array}{r} 3.3 \\ \times 0.12 \end{array}$

7.  $\begin{array}{r} 0.51 \\ \times 4.2 \end{array}$

8.  $\begin{array}{r} 1.35 \\ \times 13 \end{array}$

9.  $23 \times 0.47 =$  \_\_\_\_\_

10.  $0.9 \times 5 =$  \_\_\_\_\_

11.  $168 \times 2.25 =$  \_\_\_\_\_

12.  $0.8 \times 0.11 =$  \_\_\_\_\_

13.  $20 \times 20.2 =$  \_\_\_\_\_

14.  $4.9 \times 0.3 =$  \_\_\_\_\_

15. A roll of paper towels contained 250 sheets. Each sheet was 8.75 inches long. How long was the roll? \_\_\_\_\_

16. Tania bought 3 new sweaters. Each sold for \$19.99. How much did she spend? \_\_\_\_\_

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## Dividing with Decimals

Find  $36.8 \div 16$ .

$\begin{array}{r} \downarrow \\ 16 \overline{)36.8} \\ \underline{32} \phantom{.} \\ 48 \\ \underline{48} \\ 0 \end{array}$ <p style="text-align: center;">Place the decimal point.</p> <p style="text-align: center;">← Think: <math>20 \overline{)40}</math></p> <p style="text-align: center;">Try 2 in the quotient.</p>	$\begin{array}{r} 2.3 \\ 16 \overline{)36.8} \\ \underline{-32} \phantom{.} \\ 48 \\ \underline{-48} \\ 0 \end{array}$ <p style="text-align: center;">Multiply <math>2 \times 16</math>. Subtract. Bring down 8. Multiply <math>3 \times 16</math>. Subtract.</p>
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Find each quotient.

$$1. \begin{array}{r} 2. \\ 6 \overline{)13.8} \\ \underline{-12} \phantom{.} \\ \phantom{1}38 \\ \underline{-36} \\ \phantom{1}20 \\ \underline{-20} \\ 0 \end{array}$$

2.  $6 \overline{)131.4}$

3.  $9 \overline{)141.3}$

4.  $5 \overline{)388.5}$

5.  $7 \overline{)669.2}$

6.  $28 \overline{)263.2}$

7.  $41 \overline{)274.7}$

8.  $7 \overline{)34.23}$

9.  $269.12 \div 8 = \underline{\hspace{2cm}}$

10.  $311.56 \div 4 = \underline{\hspace{2cm}}$

11.  $2,229.62 \div 46 = \underline{\hspace{2cm}}$

12.  $1,449.09 \div 81 = \underline{\hspace{2cm}}$

13. A photographer bought 36 rolls of film for \$136.44.  
What was the price of one roll?

14. Four students each ran 100 m in a 400-m relay race.  
The team's total time was 49.44 sec. Find the average

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## Problem Solving: Skills

<p>To improve his vocabulary, Damon learned 15 new words each week. How many words did he learn in 10 weeks?</p>	<p>Operation: He learned <b>15 words per week</b>. There were <b>10 weeks</b>. I will use <b>multiplication</b>.</p> <p>Solution: <math>15 \times 10 = 150</math> Damon learned <b>150 new words</b>.</p>
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Write which operation you would use. Then solve.

1. For Class Day activities, the **594 students** at West Side School were divided into **18-student teams**. How many teams were there?

\_\_\_\_\_

2. Dixie loaded a 387.5-lb piano, a 3.75-lb lamp, and a 59-lb desk into her pickup truck. What was the total weight in the pickup?

\_\_\_\_\_

3. The \$198 bike that Ira wants is on sale for \$149.95. How much can he save by buying the bike on sale?

\_\_\_\_\_

4. Taylor's 14-minute phone call cost \$8.40. How much did the call cost per minute?

\_\_\_\_\_

5. At the fish store, Lamarr bought a 1.2-lb flounder fillet. The price of the flounder was \$3.95 per lb. How much did the fillet cost?

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**Review**  
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**Adding and Subtracting Fractions**

Find  $\frac{2}{3} + \frac{1}{6}$ .

Find  $\frac{1}{4} - \frac{1}{5}$ .

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">3</td> <td style="padding: 2px 5px; border: 2px solid black;">6</td> <td style="padding: 2px 5px;">9</td> <td style="padding: 2px 5px;">12</td> <td style="padding: 2px 5px;">15</td> <td style="padding: 2px 5px;">Multiples of 3</td> </tr> <tr> <td style="padding: 2px 5px; border: 2px solid black;">6</td> <td style="padding: 2px 5px;">12</td> <td style="padding: 2px 5px;">18</td> <td style="padding: 2px 5px;">24</td> <td style="padding: 2px 5px;">30</td> <td style="padding: 2px 5px;">Multiples of 6</td> </tr> </table> <p>The least common denominator is 6.</p> <p>Write equivalent fractions. <math>\frac{2}{3} = \frac{4}{6}</math></p> <p>Add. <math display="block">\begin{array}{r} + \frac{1}{6} = \frac{1}{6} \\ \hline \frac{5}{6} \end{array}</math></p>	3	6	9	12	15	Multiples of 3	6	12	18	24	30	Multiples of 6	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">4</td> <td style="padding: 2px 5px;">8</td> <td style="padding: 2px 5px;">12</td> <td style="padding: 2px 5px;">16</td> <td style="padding: 2px 5px; border: 2px solid black;">20</td> <td style="padding: 2px 5px;">Multiples of 4</td> </tr> <tr> <td style="padding: 2px 5px;">5</td> <td style="padding: 2px 5px;">10</td> <td style="padding: 2px 5px;">15</td> <td style="padding: 2px 5px; border: 2px solid black;">20</td> <td style="padding: 2px 5px;">25</td> <td style="padding: 2px 5px;">Multiples of 5</td> </tr> </table> <p>The least common denominator is 20.</p> <p>Write equivalent fractions. <math>\frac{1}{4} = \frac{5}{20}</math></p> <p>Subtract. <math display="block">\begin{array}{r} - \frac{1}{5} = \frac{4}{20} \\ \hline \frac{1}{20} \end{array}</math></p>	4	8	12	16	20	Multiples of 4	5	10	15	20	25	Multiples of 5
3	6	9	12	15	Multiples of 3																				
6	12	18	24	30	Multiples of 6																				
4	8	12	16	20	Multiples of 4																				
5	10	15	20	25	Multiples of 5																				

Find each sum or difference.

1.  $\frac{1}{4} + \frac{2}{3} =$  \_\_\_\_\_

4			
3			

2.  $\frac{11}{12} - \frac{5}{6} =$  \_\_\_\_\_

12			
6			

3.  $\frac{1}{3} + \frac{4}{9} =$  \_\_\_\_\_


4.  $\frac{3}{7} + \frac{2}{7} =$  \_\_\_\_\_

5.  $\frac{11}{12} - \frac{5}{12} =$  \_\_\_\_\_

6.  $\frac{1}{2} + \frac{1}{3} =$  \_\_\_\_\_

7.  $\frac{1}{3} - \frac{1}{5} =$  \_\_\_\_\_

8.  $\frac{3}{8} - \frac{1}{6} =$  \_\_\_\_\_

9.  $\frac{3}{5} + \frac{3}{10} =$  \_\_\_\_\_

10.  $\frac{1}{2} + \frac{2}{5} =$  \_\_\_\_\_

11.  $\frac{2}{3} - \frac{1}{4} =$  \_\_\_\_\_

12. Meg practiced the piano for  $\frac{5}{12}$  hr. She did homework for  $\frac{3}{4}$  hr. How much longer did she do homework than she practiced the piano?  
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## Adding Mixed Numbers

Add  $1\frac{2}{3} + 2\frac{1}{6}$ .

<p><i>Write equivalent fractions.</i></p> $1\frac{2}{3} = 1\frac{4}{6}$ $+ 2\frac{1}{6} = 2\frac{1}{6}$ <hr/> <p>The LCD of 3 and 6 is 6.</p>	<p><i>Add the fractions.</i></p> $1\frac{2}{3} = 1\frac{4}{6}$ $+ 2\frac{1}{6} = 2\frac{1}{6}$ <hr/> $3\frac{5}{6}$	<p><i>Add the whole numbers.</i></p> $1\frac{2}{3} = 1\frac{4}{6}$ $+ 2\frac{1}{6} = 2\frac{1}{6}$ <hr/> $3\frac{5}{6}$
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Find each sum. Simplify.

1. 
$$3\frac{1}{3} = 3\frac{5}{15}$$
  

$$+ 2\frac{2}{5} = 2\frac{6}{15}$$
  


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2. 
$$2\frac{1}{3} = 2\frac{2}{6}$$
  

$$+ 4\frac{1}{6} = 4\frac{1}{6}$$
  


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3. 
$$2\frac{1}{2}$$
  

$$+ 3\frac{1}{2}$$
  


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4. 
$$6\frac{5}{6}$$
  

$$+ 4\frac{3}{8}$$
  


---

5. 
$$1\frac{5}{6}$$
  

$$+ 1\frac{1}{3}$$
  


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6. 
$$6\frac{1}{4}$$
  

$$+ 4\frac{5}{6}$$
  


---

7. 
$$1\frac{1}{3}$$
  

$$+ 5\frac{2}{3}$$
  


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8. 
$$3\frac{4}{9}$$
  

$$+ 4\frac{5}{9}$$
  


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9.  $6\frac{3}{5} + 2\frac{3}{4} =$  \_\_\_\_\_

10.  $1\frac{2}{7} + 2\frac{1}{3} =$  \_\_\_\_\_

11.  $5\frac{1}{4} + 3\frac{1}{3} =$  \_\_\_\_\_

12.  $1\frac{1}{2} + 5\frac{1}{5} =$  \_\_\_\_\_

13. Marcus rode  $5\frac{3}{10}$  mi on his bike in the morning and  $4\frac{4}{5}$  mi in the afternoon. How far did he ride all together?  
 \_\_\_\_\_

14. A storage box measuring  $1\frac{1}{6}$  ft in height was stacked atop a box  $1\frac{3}{4}$  ft in height. Find the total height of the two boxes.

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## Subtracting Mixed Numbers

Subtract  $3\frac{2}{3} - 2\frac{1}{6}$ .

<p>Write equivalent fractions.</p> $3\frac{2}{3} = 3\frac{4}{6}$ $\underline{- 2\frac{1}{6} = 2\frac{1}{6}}$ <p>The LCD of 3 and 6 is 6.</p>	<p>Subtract the fractions.</p> $3\frac{2}{3} = 3\frac{4}{6}$ $\underline{- 2\frac{1}{6} = 2\frac{1}{6}}$ $1\frac{3}{6}$	<p>Subtract the whole numbers. Simplify.</p> $3\frac{2}{3} = 3\frac{4}{6}$ $\underline{- 2\frac{1}{6} = 2\frac{1}{6}}$ $1\frac{3}{6} = 1\frac{1}{2}$
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Find each difference. Simplify.

1.  $3\frac{1}{3} = 3\frac{5}{15}$   
 $\underline{- 2\frac{1}{5} = 2\frac{3}{15}}$

2.  $2\frac{1}{3} = 2\frac{2}{6}$   
 $\underline{- 1\frac{1}{6} = 1\frac{1}{6}}$

3.  $3\frac{2}{3}$   
 $\underline{- 2\frac{1}{3}}$

4.  $6\frac{5}{8}$   
 $\underline{- 2\frac{1}{8}}$

5.  $3\frac{7}{10}$   
 $\underline{- 1\frac{2}{5}}$

6.  $7\frac{7}{8}$   
 $\underline{- 2\frac{3}{4}}$

7.  $3\frac{3}{4}$   
 $\underline{- 2\frac{1}{6}}$

8.  $5\frac{5}{6}$   
 $\underline{- 1\frac{1}{8}}$

9.  $2\frac{2}{3} - 1\frac{1}{4} = \underline{\hspace{2cm}}$

10.  $4\frac{3}{4} - 4\frac{2}{5} = \underline{\hspace{2cm}}$

11.  $2\frac{1}{3} - 1\frac{2}{3} = \underline{\hspace{2cm}}$

12.  $4\frac{4}{9} - 3\frac{2}{3} = \underline{\hspace{2cm}}$

13.  $3\frac{3}{8} - 2\frac{5}{6} = \underline{\hspace{2cm}}$

14.  $5\frac{1}{3} - 2\frac{5}{8} = \underline{\hspace{2cm}}$

15. Greg found two rocks for his collection. One weighed  $4\frac{1}{4}$  lb and the other weighed  $2\frac{7}{8}$  lb. Find the difference in weights.

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## Multiplying Fractions and Mixed Numbers

Find  $\frac{2}{4} \times \frac{3}{5}$ .

<i>Multiply the numerators.</i>	<i>Multiply the denominators.</i>	<i>Simplify.</i>
$\frac{2}{4} \times \frac{3}{5} = \frac{6}{20}$	$\frac{2}{4} \times \frac{3}{5} = \frac{6}{20}$	$\frac{2}{4} \times \frac{3}{5} = \frac{6}{20} = \frac{3}{10}$

Find  $1\frac{2}{4} \times \frac{3}{5}$ .

<i>Rewrite <math>1\frac{2}{4}</math> as an improper fraction.</i>	<i>Multiply.</i>	<i>Simplify.</i>
$1\frac{2}{4} = \frac{(1 \times 4) + 2}{4} = \frac{6}{4}$	$\frac{6}{4} \times \frac{3}{5} = \frac{18}{20}$	$\frac{6}{4} \times \frac{3}{5} = \frac{18}{20} = \frac{9}{10}$

Find each product. Simplify.

1.  $\frac{2}{10} \times \frac{5}{6} = \frac{10}{60} = \underline{\hspace{2cm}}$

2.  $1\frac{3}{9} \times \frac{3}{4} = \frac{12}{9} \times \frac{3}{4} = \underline{\hspace{2cm}}$

3.  $3 \times \frac{1}{2} = \frac{3}{1} \times \frac{1}{2} = \underline{\hspace{2cm}}$

4.  $\frac{8}{10} \times \frac{1}{4} = \underline{\hspace{2cm}}$

5.  $\frac{5}{8} \times \frac{6}{10} = \underline{\hspace{2cm}}$

6.  $4 \times \frac{1}{4} = \underline{\hspace{2cm}}$

7.  $\frac{1}{4} \times 3\frac{1}{5} = \underline{\hspace{2cm}}$

8.  $\frac{5}{6} \times \frac{1}{3} = \underline{\hspace{2cm}}$

9.  $1\frac{5}{8} \times \frac{6}{7} = \underline{\hspace{2cm}}$

10.  $\frac{3}{4} \times \frac{4}{5} = \underline{\hspace{2cm}}$

11.  $\frac{2}{5} \times 2 = \underline{\hspace{2cm}}$

12.  $2\frac{1}{6} \times \frac{1}{4} = \underline{\hspace{2cm}}$

13.  $1\frac{5}{6} \times 2\frac{6}{7} = \underline{\hspace{2cm}}$

14.  $3\frac{3}{4} \times 4 = \underline{\hspace{2cm}}$

15.  $4\frac{2}{5} \times 2\frac{2}{3} = \underline{\hspace{2cm}}$

16. Marcie ran  $\frac{3}{4}$  of a mile during track practice. Mel ran  $\frac{8}{9}$  as far as Marcie ran. How far did Mel run? \_\_\_\_\_



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## Problem Solving: Strategies

A computer store has 25 printers and computers. There are 7 more printers than computers. How many of each are there?

	Printers	Computers	Check
Guess 1	20	5	$20 - 5 = 1$
Guess 2	14	11	$14 - 11 = 3$
Guess 3	16	9	$16 - 9 = 7\checkmark$

Solution: There are 16 printers and 9 computers.

### Problem Solving Strategies

- Act It Out
- Draw a Picture
- Look For a Pattern
- **Try, Check, and Revise**
- Make an Organized List
- Make a Table
- Solve a Simpler Problem
- Work Backward

Use any strategy to solve.

1. At the veterinarian's office, Terri learned that her dog weighed 4 times as much as her cat. Together the pets weighed 40 lbs. How much did the dog weigh?  
\_\_\_\_\_
2. Yasmin arrived home from play practice at 4:25 P.M. The walk home took 15 minutes. Practice began 20 minutes after the final bell and lasted for a half hour. When did school end?  
\_\_\_\_\_
3. Vanessa, Diego, Rose and Randy stood in line for lunch. Rose was just behind Vanessa. Diego was not next to Rose or Randy. Write the line order.  
\_\_\_\_\_
4. Students played dodge ball and volleyball for 45 minutes. They played dodge ball for 11 more minutes than they played volleyball. How long did they play dodge ball?  
\_\_\_\_\_
5. Mr. Jones has 4 shirts, 2 ties, and 3 pair of pants. How many days in a row can he wear a different outfit?  
\_\_\_\_\_

