

Name \_\_\_\_\_

## Estimate Decimal Sums and Differences

17

★ Estimate:  $\$7.87 - \$0.69$

$$\begin{array}{r} \$7.87 \\ - 0.69 \\ \hline \end{array} \qquad \begin{array}{r} \$8 \\ - 1 \\ \hline \$7 \end{array}$$

$\$7.87 - \$0.69$  is *about*  $\$7$ .

Estimate. Write the rounded decimals and the sum or difference.

1  $6.8 \rightarrow$   
 $+3.05 \rightarrow$  \_\_\_\_\_

$8.097 \rightarrow$   
 $-1.83 \rightarrow$  \_\_\_\_\_

$2.5 \rightarrow$   
 $-0.73 \rightarrow$  \_\_\_\_\_

2  $\$6.25 \rightarrow$   
 $+1.75 \rightarrow$  \_\_\_\_\_

$\$9.63 \rightarrow$   
 $-8.04 \rightarrow$  \_\_\_\_\_

$3.075 \rightarrow$   
 $-0.18 \rightarrow$  \_\_\_\_\_

Estimate the sums and differences.

3  $5.03 + 0.7$  \_\_\_\_\_

$\$4.79 - \$1.83$  \_\_\_\_\_

4  $6.056 - 1.9$  \_\_\_\_\_

$3.089 + 3.9$  \_\_\_\_\_

5  $\$1.37 + \$0.55$  \_\_\_\_\_

$8.3 - 0.73$  \_\_\_\_\_

6 Joey made  $\$8.50$  mowing the lawn. He made  $\$5.25$  for doing other chores. About how much did he make? \_\_\_\_\_

7 Joey bought a mystery book for  $\$1.85$  and a CD for  $\$11.60$ . About how much did Joey spend? \_\_\_\_\_

## Add and Subtract Decimals

18

Line up the decimal points.	Subtract. Regroup if needed.	Write the decimal point in the answer.
Subtract: $0.8 - 0.53$  $\begin{array}{r} 0.80 \\ -0.53 \\ \hline \end{array}$	$\begin{array}{r} \phantom{0}7\phantom{0} \\ 0.\cancel{8}0 \\ -0.53 \\ \hline 0.27 \end{array}$	$\begin{array}{r} \phantom{0}7\phantom{0} \\ 0.\cancel{8}0 \\ -0.53 \\ \hline 0.27 \end{array}$

Find the sums and differences.

- |  |  |   |  |  |   |
|--|--|---|--|--|---|
| <b>1</b> $\begin{array}{r} 3.8 \\ +4.16 \\ \hline \end{array}$   | $\begin{array}{r} 7.53 \\ -2.49 \\ \hline \end{array}$ | $\begin{array}{r} 5.26 \\ +0.9 \\ \hline \end{array}$   | $\begin{array}{r} 6.821 \\ -0.39 \\ \hline \end{array}$        | $\begin{array}{r} \$7.25 \\ -\$1.49 \\ \hline \end{array}$     | $\begin{array}{r} \$4.35 \\ +\$7.22 \\ \hline \end{array}$    |
| <b>2</b> $\begin{array}{r} 0.73 \\ +0.006 \\ \hline \end{array}$ | $\begin{array}{r} 5.7 \\ -0.06 \\ \hline \end{array}$  | $\begin{array}{r} 5.07 \\ +4 \\ \hline \end{array}$     | $\begin{array}{r} 6 \\ -1.37 \\ \hline \end{array}$            | $\begin{array}{r} 1.35 \\ 0.7 \\ +0.069 \\ \hline \end{array}$ | $\begin{array}{r} 2.1 \\ 0.728 \\ +0.7 \\ \hline \end{array}$ |
| <b>3</b> $\begin{array}{r} 7.65 \\ -4.069 \\ \hline \end{array}$ | $\begin{array}{r} 5.03 \\ +0.76 \\ \hline \end{array}$ | $\begin{array}{r} 0.743 \\ -0.36 \\ \hline \end{array}$ | $\begin{array}{r} 1.569 \\ 4.17 \\ +3.2 \\ \hline \end{array}$ | $\begin{array}{r} 6 \\ +0.378 \\ \hline \end{array}$           | $\begin{array}{r} 9.23 \\ -1.2 \\ \hline \end{array}$         |
| <b>4</b> $\begin{array}{r} 6 \\ -0.378 \\ \hline \end{array}$    | $\begin{array}{r} \$3.25 \\ -2 \\ \hline \end{array}$  | $\begin{array}{r} 0.42 \\ +0.09 \\ \hline \end{array}$  | $\begin{array}{r} 0.5 \\ -0.18 \\ \hline \end{array}$          | $\begin{array}{r} 6.7 \\ +7.06 \\ \hline \end{array}$          | $\begin{array}{r} \$8.46 \\ -\$6.96 \\ \hline \end{array}$    |

- 5** Ben bought juice for \$1.35. He gave the cashier \$5. How much change should he receive? \_\_\_\_\_
- 6** Grace's rain gauge collected 1.3 inches of rain. Later, it rained another 0.5 inch. How much rain would be in the rain gauge now? \_\_\_\_\_

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

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★ Here are some shortcuts to help you multiply by powers of 10.

Multiply by	Move decimal point to the <b>right</b>	
10	1 place	$10 \times 3.\underline{8}6 = 38.6$ $10 \times 0.\underline{00}6 = 0.06$
100	2 places	$100 \times 3.\underline{86} = 386$ $100 \times 0.\underline{006} = 0.6$
1,000	3 places	$1,000 \times 3.\underline{860} = 3,860$ $1,000 \times 0.\underline{006} = 6$

Write the products.

1  $3.26 \times 10 =$  \_\_\_\_\_

$0.46 \times 10 =$  \_\_\_\_\_

$3.26 \times 100 =$  \_\_\_\_\_

$0.46 \times 100 =$  \_\_\_\_\_

$3.26 \times 1,000 =$  \_\_\_\_\_

$0.46 \times 1,000 =$  \_\_\_\_\_

Write the products.

2

Multiply by 10

Multiply by 100

Multiply by 1,000

Input	Output
3.8	_____
0.62	_____
0.14	_____

Input	Output
4.2	_____
0.76	_____
0.035	_____

Input	Output
1.5	_____
0.032	_____
0.75	_____

Write the products.

3  $2.5 \times 10 =$  \_\_\_\_\_

$0.47 \times 10 =$  \_\_\_\_\_

$1.7 \times 1,000 =$  \_\_\_\_\_

4  $0.7 \times 100 =$  \_\_\_\_\_

$8.06 \times 10 =$  \_\_\_\_\_

$0.083 \times 100 =$  \_\_\_\_\_

5  $1.59 \times 1,000 =$  \_\_\_\_\_

$3.83 \times 100 =$  \_\_\_\_\_

$6.008 \times 10 =$  \_\_\_\_\_

6  $100 \times 8.32 =$  \_\_\_\_\_

$4.16 \times 1,000 =$  \_\_\_\_\_

$1,000 \times 0.05 =$  \_\_\_\_\_