

# Add and Subtract Decimals: Thousandths

Name \_\_\_\_\_

**Learning Target:** Add and subtract decimals and check whether the sum or difference is reasonable.

## Success Criteria:

- I can add and subtract like place values.
- I can add and subtract decimals, regrouping when needed.
- I can estimate a sum or difference to check whether my answer is reasonable.

## Think and Grow

**Example** Add:  $43.182 + 24.739$ .

Use place value to line up the addends.

$$\begin{array}{r} 43.182 \\ + 24.739 \\ \hline \end{array}$$

Add the thousandths, hundredths, and then the tenths.

$$\begin{array}{r} \phantom{0}1\phantom{0}1 \\ 43.\overset{1}{1}82 \\ + 24.\overset{7}{3}9 \\ \hline \phantom{0}921 \end{array}$$

Regroup if necessary.

Add the ones, and then the tens. Regroup if necessary.

$$\begin{array}{r} \phantom{0}1\phantom{0}1 \\ 43.\overset{1}{1}82 \\ + 24.\overset{7}{3}9 \\ \hline 67.921 \end{array}$$

The sum is \_\_\_\_\_.

**Reasonable?**

\_\_\_\_\_ is close to \_\_\_\_\_. ✓

**Example** Subtract:  $37.817 - 19.809$ .

Use place value to line up the numbers.

$$\begin{array}{r} 37.817 \\ - 19.809 \\ \hline \end{array}$$

Subtract the thousandths, hundredths, and then the tenths.

$$\begin{array}{r} \phantom{0}0\phantom{0}1\phantom{0}7 \\ 37.\overset{0}{1}7\overset{1}{7} \\ - 19.\overset{8}{0}09 \\ \hline \phantom{0}008 \end{array}$$

Regroup if necessary.

Subtract the ones, and then the tens. Regroup if necessary.

$$\begin{array}{r} \phantom{0}2\phantom{0}1\phantom{0}7\phantom{0}1\phantom{0}7 \\ 37.\overset{2}{1}7\overset{0}{1}7 \\ - 19.\overset{8}{0}09 \\ \hline 18.008 \end{array}$$

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

**Reasonable?**

\_\_\_\_\_ is close to \_\_\_\_\_. ✓

## Show and Grow

Find the sum or difference. Check whether your answer is reasonable.

1. 
$$\begin{array}{r} 32.308 \\ + 13.058 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 56.182 \\ + 78.901 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 87.520 \\ - 46.610 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 23.001 \\ - 4.592 \\ \hline \end{array}$$

# Practice

Find the sum or difference. Check whether your answer is reasonable.

5.  $22.711 + 4.351 =$  \_\_\_\_\_

6.  $407.771 + 96.128 =$  \_\_\_\_\_

7.  $5.755 - 0.429 =$  \_\_\_\_\_

8.  $867.604 - 10.994 =$  \_\_\_\_\_

9. Forty-eight and nine hundred thirty-one thousandths plus seventy-two and six hundred fifty-eight thousandths

10. You have 8 feet of yarn to decorate a frame. How much yarn do you have left after you put a border around the frame?

1.248 feet



2.618 feet

Would you use more or less yarn to put a border around this frame than around the first frame?  
How much more or less?

0.417 foot



3.482 feet

11. **Modeling Real Life** The diameter of a quarter is 24.257 millimeters. The diameter of a dime is 6.350 millimeters less than that of the quarter. What is the diameter of the dime?

12. **Modeling Real Life** An adult finishes a race in 72.624 seconds. A child finishes the same race in 128.212 seconds. How much faster does the adult finish the race than the child?