

2.4 ADDING AND SUBTRACTING DECIMALS

ESSENTIAL QUESTION: How can you add and subtract decimals?

ADDING AND SUBTRACTING DECIMALS

- 1) Write the numbers vertically and line up the decimal points.
- 2) Bring the decimal point straight down.
- 3) Add or subtract as you would whole numbers.

EXAMPLE 1

1) Add $8.13 + 2.76$

$$\begin{array}{r} 8.13 \\ + 2.76 \\ \hline 10.89 \end{array}$$

2) Add $1.459 + 23.7$

$$\begin{array}{r} 1.459 \\ + 23.700 \\ \hline 25.159 \end{array}$$

EXAMPLE 2

1) Subtract $5.508 - 3.174$

$$\begin{array}{r} 5.508 \\ - 3.174 \\ \hline 2.334 \end{array}$$

2) Subtract $21.9 - 1.605$

$$\begin{array}{r} 21.900 \\ - 1.605 \\ \hline 20.295 \end{array}$$

ON YOUR OWN

Add or Subtract

1) $4.206 + 10.85$

$$\begin{array}{r} 4.206 \\ + 10.850 \\ \hline 15.056 \end{array}$$

2) $6.34 - 5.33$

$$\begin{array}{r} 6.34 \\ - 5.33 \\ \hline 1.01 \end{array}$$

3) $15.5 + 8.229$

$$\begin{array}{r} 15.500 \\ + 8.229 \\ \hline 23.729 \end{array}$$

4) $78.41 + 90.00$

$$\begin{array}{r} 78.41 \\ + 90.00 \\ \hline 168.41 \end{array}$$

5) $27.9 - 0.905$

$$\begin{array}{r} 27.900 \\ - 0.905 \\ \hline 26.995 \end{array}$$

6) $18.626 - 13.88$

$$\begin{array}{r} 18.626 \\ - 13.880 \\ \hline 4.746 \end{array}$$

EXAMPLE 3

Your meal at the school cafeteria costs \$3.45. Your friend's meal costs \$3.90. You pay for both meals with a \$10 bill. How much change do you receive?

Amount given - (cost of both meals)

$$\begin{array}{r} 10.00 \\ - 7.35 \\ \hline 2.65 \end{array}$$
$$\begin{array}{r} 3.45 \\ + 3.90 \\ \hline 7.35 \end{array}$$

You get \$2.65 in change.

The Lincoln Memorial Reflecting Pool is approximately rectangular. Its width is 50.9 meters, and its length is 618.44 meters. You walk the perimeter of the pool. About how many meters do you walk?

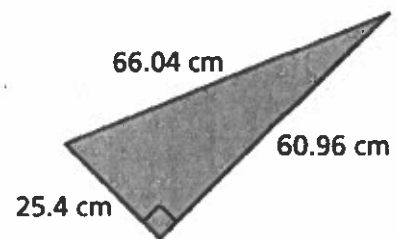
$$\begin{array}{r} 618.44 \\ + 50.90 \\ \hline 669.34 \\ + 669.34 \\ \hline 1338.68 \end{array}$$



You walk about 1339 meters.

Find the perimeter of the triangle.

$$\begin{array}{r} 66.04 \\ + 25.40 \\ + 60.96 \\ \hline 152.40 \end{array}$$



The perimeter of the triangle is 152.40 cm.