

4.9 Review

Find the area, perimeter, and volume for each set of dimensions.

length = 5 m

width = 4 m

height = 6 m

Perimeter:

$$\begin{aligned} P &= 2l + 2w \\ &= 2 \cdot 5 + 2 \cdot 4 \\ &= 10 + 2 \cdot 4 \\ &= 10 + 8 \end{aligned}$$

$$P = 18 \text{ m}$$

Area:

$$\begin{aligned} A &= l \cdot w \\ A &= 5 \cdot 4 \end{aligned}$$

$$A = 20 \text{ m}^2$$

Volume:

$$\begin{aligned} V &= l \cdot w \cdot h \\ V &= 5 \cdot 4 \cdot 6 \\ &= 20 \cdot 6 \end{aligned}$$

$$V = 120 \text{ m}^3$$

4.9 Review

Find the area, perimeter, and volume for each set of dimensions.

length = 6 ft

width = 2 ft

height = 5 ft

Perimeter:

$$\begin{aligned} P &= 2l + 2w \\ &= 2 \cdot 6 + 2 \cdot 2 \\ &= 12 + 2 \cdot 2 \\ &= 12 + 4 \end{aligned}$$

$$P = 16 \text{ ft}$$

Area:

$$\begin{aligned} A &= l \cdot w \\ &= 6 \cdot 2 \end{aligned}$$

$$A = 12 \text{ ft}^2$$

Volume:

$$\begin{aligned} V &= l \cdot w \cdot h \\ &= 6 \cdot 2 \cdot 5 \\ &= 12 \cdot 5 \end{aligned}$$

$$V = 60 \text{ ft}^3$$

4.9 Review

Find the area, perimeter, and volume for each set of dimensions.

length = 2.3 yd

width = 1.4 yd

height = 5.2 yd

Perimeter:

$$P = 2l + 2w$$

$$P = 2 \cdot 2.3 + 2 \cdot 1.4$$

$$P = 4.6 + 2 \cdot 1.4$$

$$= 4.6 + 2.8$$

$$P = 7.4 \text{ yd}$$

$$\begin{array}{r} 2.3 \\ \times 2 \\ \hline 4.6 \end{array}$$

$$\begin{array}{r} 1.4 \\ \times 2 \\ \hline 2.8 \end{array}$$

$$\begin{array}{r} 4.6 \\ + 2.8 \\ \hline 7.4 \end{array}$$

Area:

$$A = l \cdot w$$

$$= 2.3 \cdot 1.4$$

$$A = 3.22 \text{ yd}^2$$

$$\begin{array}{r} 2.3 \\ \times 1.4 \\ \hline 92 \\ 230 \\ \hline 322 \end{array}$$

Volume:

$$V = l \cdot w \cdot h$$

$$V = 2.3 \cdot 1.4 \cdot 5.2$$

$$= 3.22 \cdot 5.2$$

$$V = 16.744 \text{ yd}^3$$

$$\begin{array}{r} 3.22 \\ \times 5.2 \\ \hline 644 \\ + 16100 \\ \hline 16744 \end{array}$$