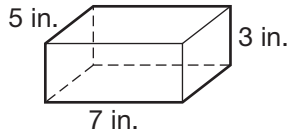


Surface Area

You can use formulas to find the surface area of different solid figures.

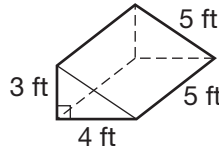
Rectangular Prism



$$\begin{aligned}
 SA &= 2lw + 2lh + 2wh \\
 &= 2(5 \times 7) + 2(5 \times 3) + 2(7 \times 3) \\
 &= 70 + 30 + 42 \\
 &= 142
 \end{aligned}$$

The surface area is 142 in².

Triangular Prism

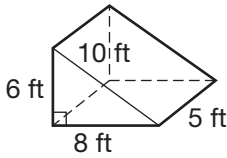


$$\begin{aligned}
 SA &= 2\left(\frac{1}{2} \times 4 \times 3\right) + (3 \times 5) + (4 \times 5) + (5 \times 5) \\
 &= 12 + 15 + 20 + 25 \\
 &= 72
 \end{aligned}$$

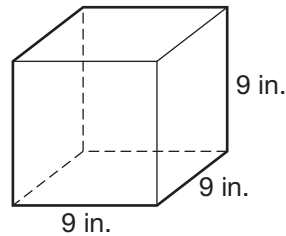
The surface area is 72 ft².

Find the surface area of each figure.

1.



2.



Find the surface area of each rectangular prism.

3. $l = 5.5$ cm, $w = 4.5$ cm, $h = 3.5$ cm

4. $l = 15$ in., $w = 9$ in., $h = 3.8$ in.

5. $l = 2$ yd, $w = 6$ yd, $h = 1.7$ yd

6. **Reasoning** Write the dimensions of two different rectangular prisms that have the same surface area.
