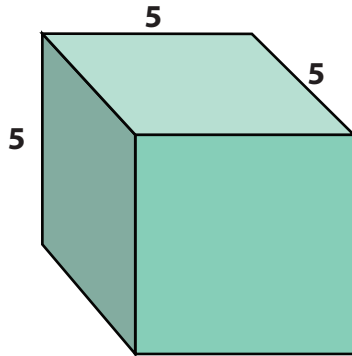


Surface Area: A Cube

A cube has six faces. Each face is an identical square. Find the surface area of each cube. See the example.

A cube has 5-inch sides.



1. Find the area of one face:

$$\begin{aligned}\text{Area of a square} &= \text{length} \times \text{length} \\ &= 5 \times 5 \\ &= 25\end{aligned}$$

The area of each face is 25 square inches.

2. Find the surface area:

The cube has 6 faces and each face is 25 sq. inches.

$$\begin{aligned}\text{Surface area} &= \text{area of each face} \times \text{number of face} \\ &= 25 \times 6 \\ &= 150\end{aligned}$$

Therefore, the surface area of this cube is 150 sq. inches.

Now, follow these steps to try 2 on your own.

