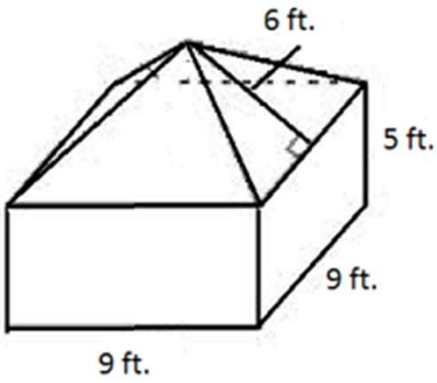
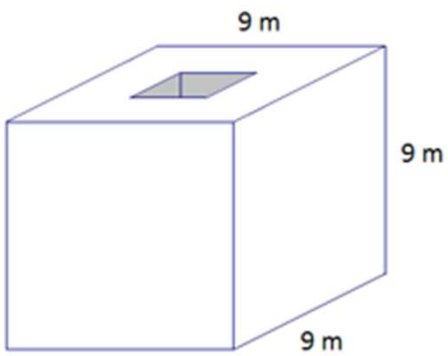


## Surface Area Worksheets

Determine the surface area of each figure.



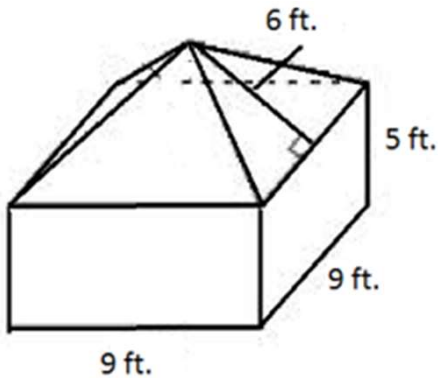
A cube with a square hole with 3 m side lengths has been cut through the cube.



Go to [onlinemathlearning.com](https://www.onlinemathlearning.com) for more free math resources

## Surface Area Worksheets

Determine the surface area of each figure.



The surface area of the prism is found by taking the area of the base of the rectangular prism and the area of its four lateral faces and adding it to the area of the four lateral faces of the pyramid.

$$\begin{aligned}\text{Area of base} &= 9 \text{ ft.} \times 9 \text{ ft.} \\ &= 81 \text{ ft}^2\end{aligned}$$

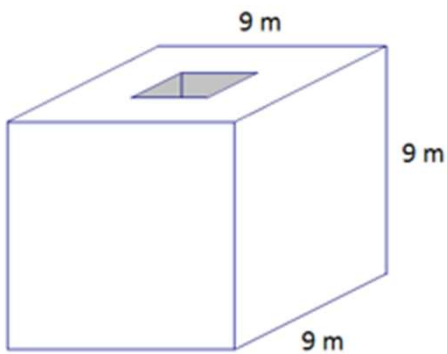
$$\begin{aligned}\text{Area of rectangular sides} &= 4(9 \text{ ft.} \times 5 \text{ ft.}) \\ &= 180 \text{ ft}^2\end{aligned}$$

$$\begin{aligned}\text{Area of triangular sides} &= 4\left(\frac{1}{2}(9 \text{ ft.})(6 \text{ ft.})\right) \\ &= 108 \text{ ft}^2\end{aligned}$$

$$\begin{aligned}\text{Surface area} &= 81 \text{ ft}^2 + 180 \text{ ft}^2 + 108 \text{ ft}^2 \\ &= 369 \text{ ft}^2\end{aligned}$$

---

A cube with a square hole with 3 m side lengths has been cut through the cube.



$$\text{Lateral sides of the hole} = 4(9 \text{ m} \times 3 \text{ m}) = 108 \text{ m}^2$$

$$\begin{aligned}\text{Surface area of cube with holes} &= 486 \text{ m}^2 - 2(3 \text{ m} \times 3 \text{ m}) + 108 \text{ m}^2 \\ &= 576 \text{ m}^2\end{aligned}$$

Go to [onlinemathlearning.com](https://www.onlinemathlearning.com) for more free math resources