Name: ____

Lesson Guide

This lesson guide accompanies the following video lesson:

Volume and Surface Area of a Cube

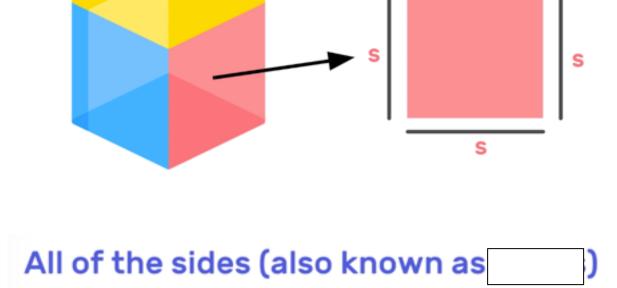
Key Questions

- What are the properties of a cube?
- How can you find the volume of a cube?
- How can you find the surface area of a cube?

have the same length!

Key Vocabulary

A cube is a box-shaped three-dimensional figure that has six identical faces.

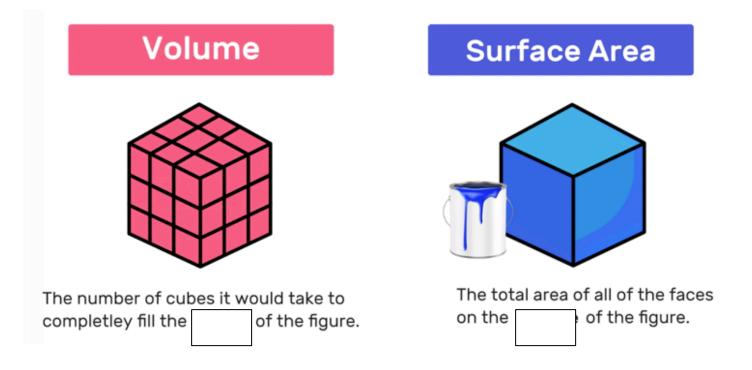




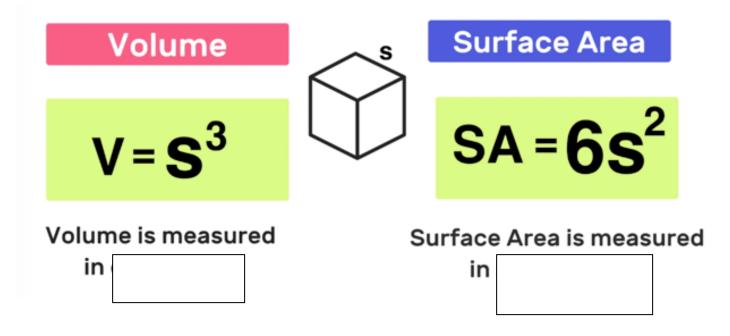
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Volume and Surface Area of a Cube

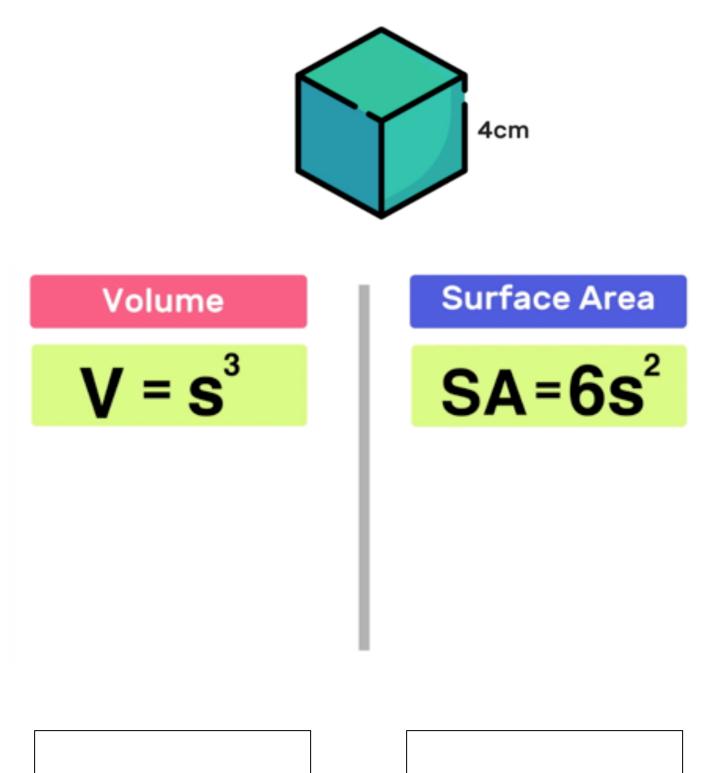


Formula Reference



Practice Problem #1

Find the volume and surface area of a cube with a side length of 4cm.



Practice Problem #2

Find the volume and surface area of a cube-shaped box with a height of 9 inches.



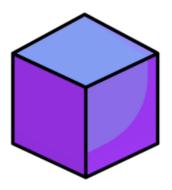






Your Turn!

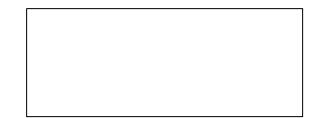
Find the volume and surface area of a cube with an edge length of 12 mm.



Volume

Surface Area





ANSWER KEY

Practice Problem #1: $V = 64cm^3$, $SA = 96cm^2$

Practice Problem #2 $V = 729in^3$, $SA = 486in^2$

Your Turn: $V = 1728 mm^2$, $SA = 864 mm^2$