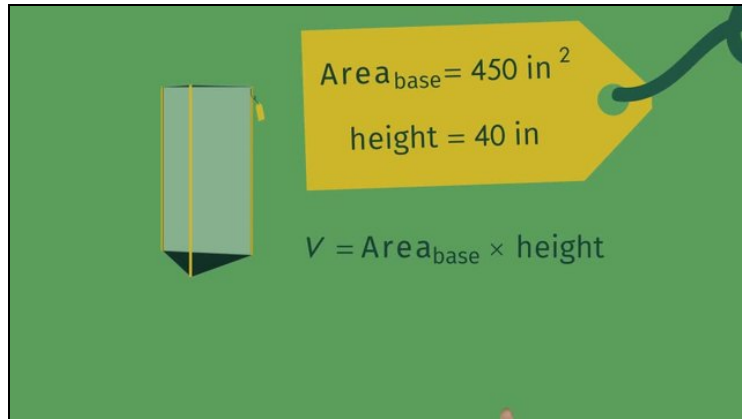




Printable Worksheets from [sofatutor.com](https://www.sofatutor.com)

Volume of Prisms



- 1 Review the area of shapes and names of 3-D objects.
- 2 Identify the steps for calculating volume of rectangular prisms.
- 3 Sort the steps for calculating the volume of a triangular prism.
- 4 Calculate volume of right prisms.
- 5 Solve real-world problems involving the volume of right prisms.
- 6 Calculate the volume of the 3D object
- + with lots of tips, answer keys, and detailed answer explanations for all of the problems.



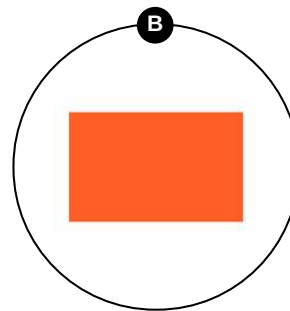
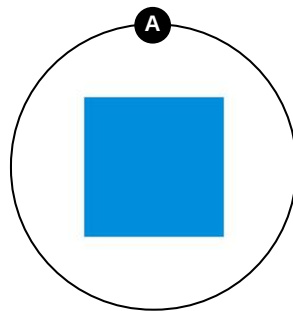
The complete package, including all problems, hints, answers, and detailed answer explanations is available for all [sofatutor.com](https://www.sofatutor.com) subscribers.

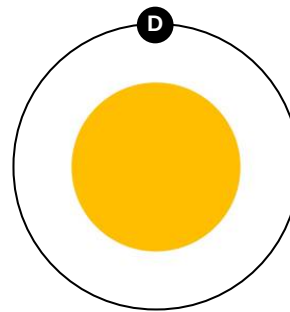
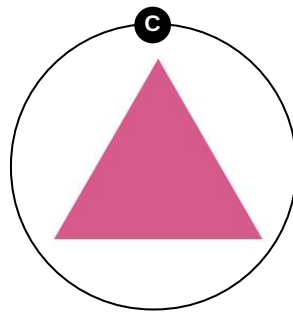


Review the area of shapes and names of 3-D objects.

Match the area formula and 3-D name shape to the correct base shape.

1 rectangular prism	2 cube	3 triangular prism	4 cone
5 $A = s^2$	6 $A = lw$	7 square prism	8 $A = \frac{1}{2}bh$
9 cylinder	10 $A = \pi r^2$		







Hints for solving these problems

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of 6

Review the area of shapes and names of 3-D objects.

Hint #1

The name of a 3-D prism generally includes the shape of their base. However, there are a few exceptions.

Hint #2

To calculate the area of a triangle we need to know the dimensions of its base and height.

Hint #3

The area of a circle with a radius of 2 cm is approximately equal to 12.57 cm^2 .

Hint #4

A cone is a solid or hollow object which tapers from a circular base to a point.

Hint #5

A cylinder is a solid object with:

- two identical flat ends that are circular
 - and one curved side.
-



Answers and detailed answer explanations for these problems

1
of 6

Review the area of shapes and names of 3-D objects.

Answer key: A: 2, 5, 7 // B: 1, 6 // C: 3, 8 // D: 4, 9, 10

Blue Square*

- The area of a square with side lengths, s , is $A = s^2$.
- A **cube** and a **square prism** are two 3-D shapes with a square base.

Red Rectangle

- The area of a rectangle with length l and width w is $A = lw$.
- A **rectangular prism** is a 3-D shape with a rectangular base.

Pink Triangle

- The area of a triangle with base b and height h is, $A = \frac{1}{2}bh$.
- A **triangular prism** is a 3-D shape with a triangular base.

Yellow Circle

- The area of a circle with radius r is, $A = \pi r^2$.
- A **cylinder** and a **cone** are two 3-D shapes with a circular base.