Volume of Prisms and Cylinders

Ex. 1) Rectangular Prisms
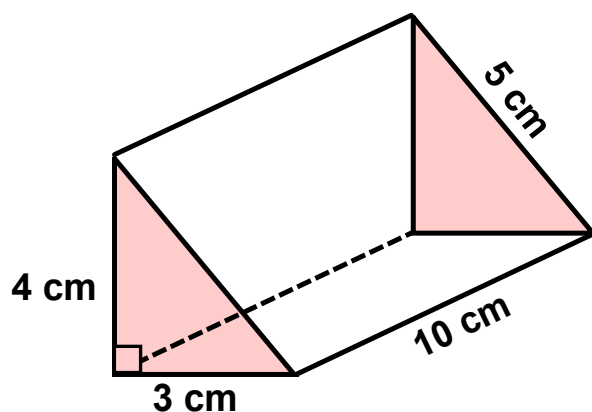
8 in

15 in

4 in
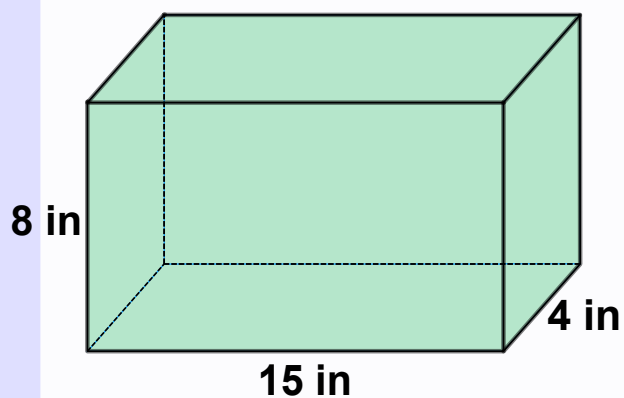
$$\mathcal{V} = \ell wh$$

Volume = length • width • height

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Volume of Prisms and Cylinders

Ex. 2) Triangular Prisms

$$\mathcal{V} = \mathcal{B}h$$

Volume = area of the base • height

Note: On a triangular prism,
the triangle is the base.

4 cm

3 cm

5 cm

10 cm

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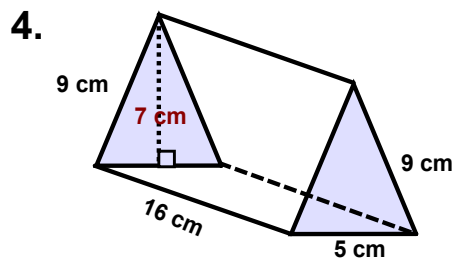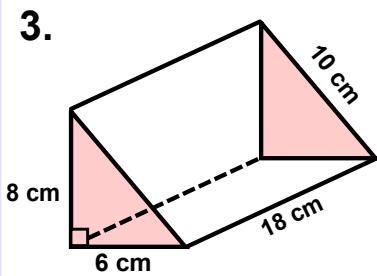
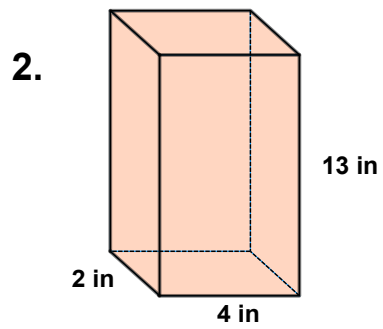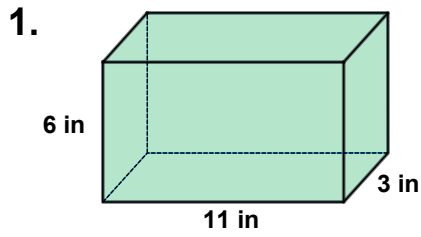## Volume of Prisms and Cylinders

Ex. 3) Cylinders

$$V = Bh$$
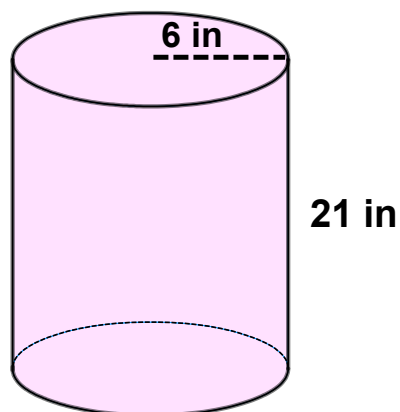
Volume = area of the base • height

Note: On a cylinder, the circle is the base.

$\therefore$ Volume = $\pi r^2 h$

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Volume of Prisms and Cylinders

Find the volume of each figure.

1.

6 in

11 in

3 in

2.

13 in

2 in

4 in

3.

10 cm

8 cm

6 cm

18 cm

4.

9 cm

7 cm

16 cm

9 cm

5 cm

5.

5 in

18 in

6.

14 in

24 in
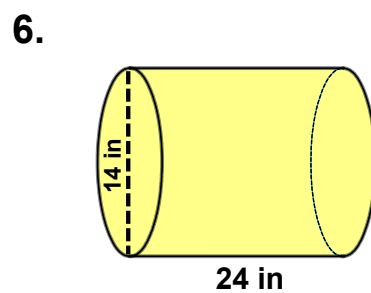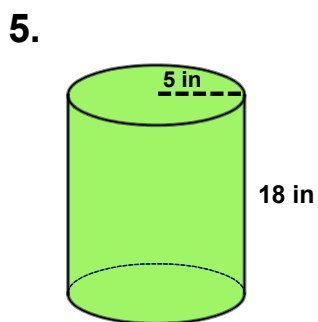
Answers: 1. 198 in³   2. 104 in³   3. 432 cm³   4. 280 cm³   5. 1413 in³   6. 3692.64 in³

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