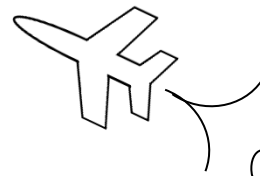


Math on the Fly!



NAME: _____ DATE: _____

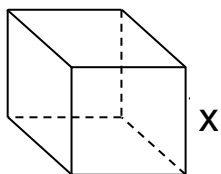
Finding Missing Dimensions of 3D Solids

Find the value of each variable in the figures below.

1.

Cube

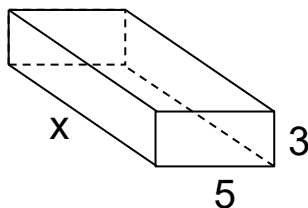
$$\text{Volume} = 343 \text{ cm}^3$$



2.

Rectangular Prism

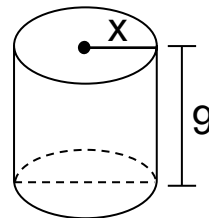
$$\text{Volume} = 135 \text{ ft}^3$$



3.

Cylinder

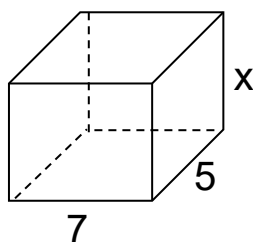
$$\text{Volume} = 144\pi \text{ km}^3$$



4.

Rectangular Prism

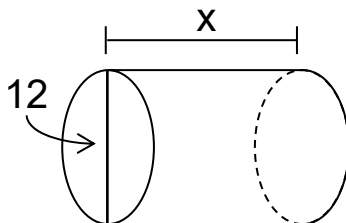
$$\text{Volume} = 280 \text{ in}^3$$



5.

Cylinder

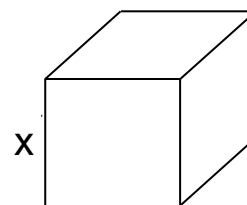
$$\text{Volume} = 288\pi \text{ yd}^3$$



6.

Cube

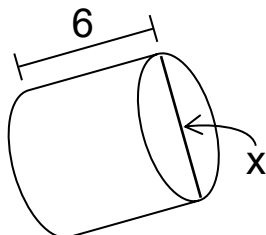
$$\text{Volume} = 729 \text{ mm}^3$$



7.

Cylinder

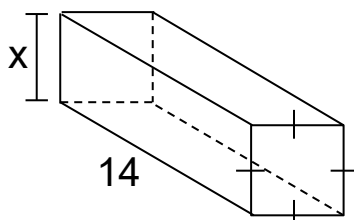
$$\text{Volume} = 150\pi \text{ cm}^3$$



8.

Rectangular Prism

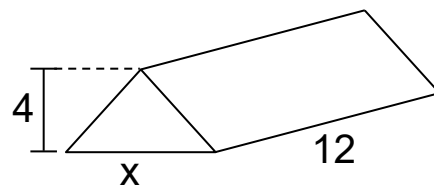
$$\text{Volume} = 56 \text{ ft}^3$$



9.

Triangular Prism

$$\text{Volume} = 168 \text{ km}^3$$



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SOLUTIONS

1. $x = 7 \text{ cm}$

2. $x = 9 \text{ ft}$

3. $x = 4 \text{ km}$

4. $x = 8 \text{ in}$

5. $x = 8 \text{ yd}$

6. $x = 9 \text{ mm}$

7. $x = 10 \text{ cm}$ (radius = 5)

8. $x = 2 \text{ ft}$

9. $x = 7 \text{ km}$