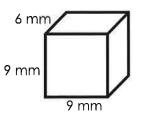
Name: _____

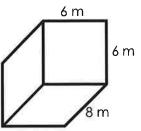
√ Volume of Rectangular Prisms

Find the volume of each rectangular prism. Don't forget to label the units.



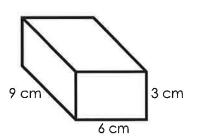
b.



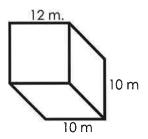


volume: _____ volume: ____ volume: _____

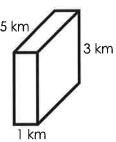
d.



e.



f.



volume:

volume: _____ volume: ____

$$\mathbf{w} = 7 \text{ m}$$

$$h = 3 \text{ m}$$

h.
$$I = 12 \text{ cm}$$

$$\mathbf{w} = 2 \text{ cm}$$

$$h = 3 cm$$

i.
$$I = 5 \text{ km}$$

$$\mathbf{w} = 8 \text{ km}$$

$$h = 4 \text{ km}$$

volume: _____ volume: _____

volume: _____

j.

$$I = 2 \text{ km}$$

$$\mathbf{w} = 6 \text{ km}$$

$$h = 10 \text{ km}$$

k.
$$I = 11 \text{ mm}$$

$$w = 9 \text{ mm}$$

$$h = 3 \text{ mm}$$

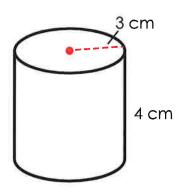
I.
$$I = 5 \text{ cm}$$

$$\mathbf{w} = 7 \text{ cm}$$

$$h = 7 cm$$

volume: _____ volume: ____ volume: _____

Volume of a Cylinder



A cylinder has a circular base. Use $A = \pi r^2$ to find the area of the base.

$$A \approx 3.14 \times 3^2$$

$$A \approx 3.14 \times 9$$

$$A \approx 28.26 \text{ cm}^2$$

The volume of the cylinder is equal to its base area times its height.

$$V \approx 28.26 \text{ cm}^2 \times 4 \text{ cm}$$

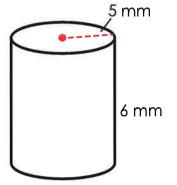
$$V \approx 113.04 \text{ cm}^3$$

The formula for finding the volume of a cylinder can be expressed as:

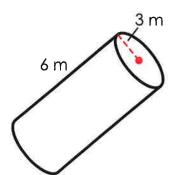
$$V = \pi r^2 h$$

Find the volume of each cylinder. Use 3.14 for π . Round your answer to the nearest tenth.

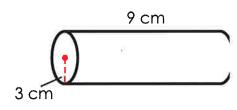
1.



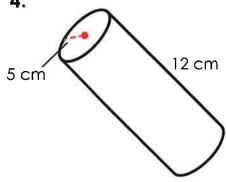
2.



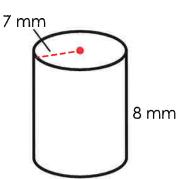
3.



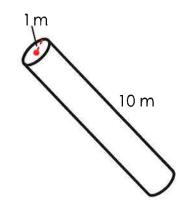
4.



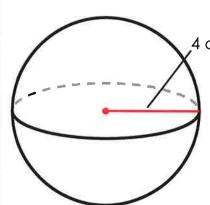
5.



6.



Volume of a Sphere



$$V = \frac{4}{3}\pi r^3$$

$$\approx \frac{4}{3} \cdot 3.14 \cdot 4^3$$

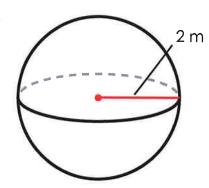
$$\approx \frac{4}{3} \cdot 3.14 \cdot 64$$

≈ 267.947

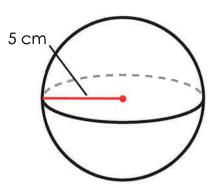
The volume of the sphere is approximately 267.9 cm³.

Find the volume of each sphere. Use 3.14 for π . Round your answer to the nearest tenth.

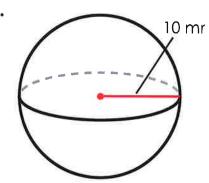
1.



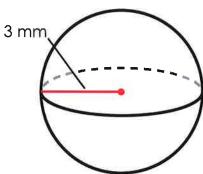
2.



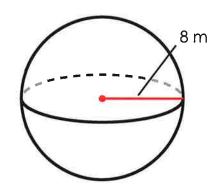
3.



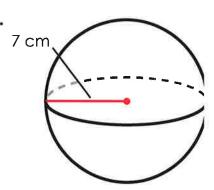
4.



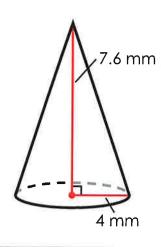
5.



6



Volume of a Cone



$$V = \frac{1}{3}\pi r^{2}h$$

$$\approx \frac{1}{3} \cdot 3.14 \cdot 4^{2} \cdot 7.6$$

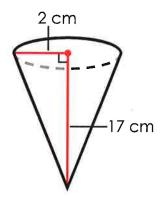
$$\approx \frac{1}{3} \cdot 3.14 \cdot 16 \cdot 7.6$$

$$\approx 127.27466$$

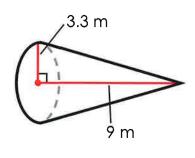
The volume of the cone is approximately 127.27 mm³.

Find the volume of each cone. Use 3.14 for π . Round your answers to the nearest hundredth.

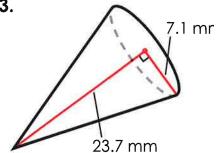
1.



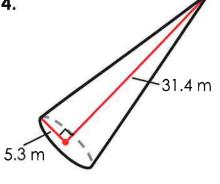
2.



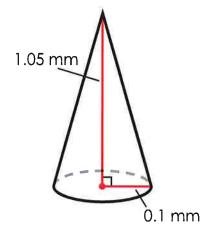
3.

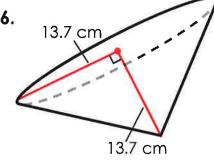


4.

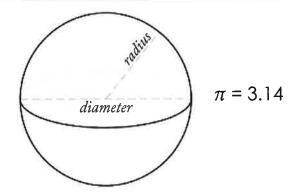


5.





Surface Area of a Sphere



Surface Area = $4\pi r^2$

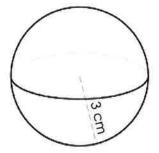
Calculate the Surface Area (S.A.) for each sphere by using the formula S.A. = $4\pi r^2$. Use 3.14 for π .

a.



a. _____

b.



b. ____

c. radius = 5 mm

c. _____