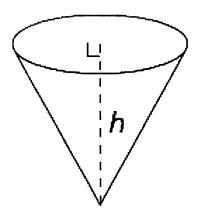
I can calculate the Volume of Cones and determine the dimensions given the volume $Volume\ of\ Cones$

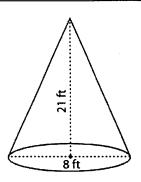


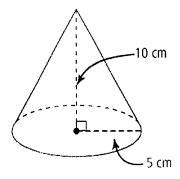
Volume of a Cone

$$V = B \cdot H$$

Find the Volume of the Cone in terms of π

Find the Volume of the Cone to the nearest tenth.

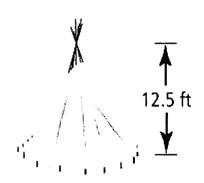




Given Volume, Find Dimensions

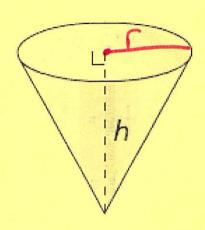
1. A cone has a volume of 33π cm³ and a height of 11 cm. Find the diameter of the cone.

2. The volume of the tepee is 471 ft³. To the nearest foot, what is the radius? Use 3.14 for π .



I can calculate the Volume of Cones and determine the dimensions given the volume

Volume of Cones



Volume of a Cone

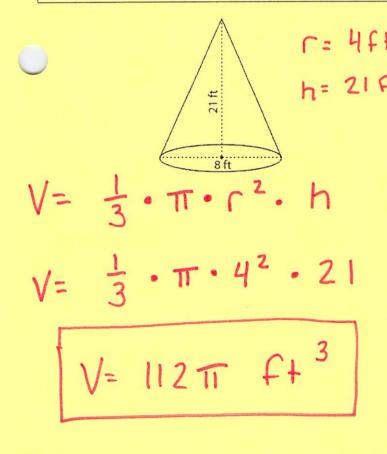
$$V = \frac{1}{3} B \cdot H$$

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

$$T \cdot r^2 \cdot H$$

Find the Volume of the Cone in terms of π

Find the Volume of the Cone to the nearest tenth.



$$V = \frac{1}{3} \cdot \pi \cdot \Gamma^{2} \cdot \ln V = \frac{1}{3} \cdot \pi \cdot S^{2} \cdot 10$$

$$V = \frac{1}{3} \cdot \pi \cdot S^{2} \cdot 10$$

$$V = 261 \cdot 8 \text{ cm}^{3}$$

Given Volume, Find Dimensions

1. A cone has a volume of 33π cm³ and a height of 11 cm. Find the diameter of the cone.

$$V = \frac{1}{3} \cdot \pi \cdot \Gamma^{2} \cdot h$$
 $3.33\pi = \frac{3}{3} \cdot \pi \cdot \Gamma^{2} \cdot 11$
 $99 + \Gamma^{2} \cdot 11$

2. The volume of the tepee is 471 ft³. To the nearest foot, what is the radius? Use 3.14 for π .

$$\frac{24}{13.089} = \frac{13.089}{13.089} \cdot \Gamma^{2}$$

$$\sqrt{35.984} = \sqrt{\Gamma^{2}}$$

$$6 + 1 = \Gamma$$

