

## Volume of a Cone

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Solve the problems.

- 1) A container is shaped like a cone and contains oil. The radius is 5 feet and the height is 7 feet. If the container can release oil from its bottom at the rate of 20 cubic feet per minute, how long would it take for the container to empty fully? Use ( $\pi = 3.14$ ).  
\_\_\_\_\_
- 2) Calculate the volume of a cone if the height is 12 cm and the radius is 7 cm  
\_\_\_\_\_
- 3) Find the height of a cone having the radius of the base as 5 cm and the volume of a cone is  $44 \text{ cm}^3$ ?  
\_\_\_\_\_
- 4) Find the volume of a cone having the radius of the base as 10 cm and the height of the cone is 12 cm?  
\_\_\_\_\_
- 5) Calculate the volume of a cone having the radius of the base as 7 m and the height of the cone is 13 m?  
\_\_\_\_\_
- 6) Find the radius of a cone whose volume is  $33.49 \text{ cm}^3$  and height 2 cm.  
\_\_\_\_\_
- 7) A container is shaped like a cone and contains oil. The radius is 7 feet and the height is 8 feet. If the container can release oil from its bottom at the rate of 12 cubic feet per minute, how long would it take for the container to empty fully? Use ( $\pi = 3.14$ ).  
\_\_\_\_\_
- 8) Calculate the height of a cone whose volume is  $37680 \text{ cm}^3$ , radius 30 cm and slant length is 50 cm.  
\_\_\_\_\_
- 9) Find the volume of a cone having the radius of the base as 7 m and the height of the cone is 9 m?  
\_\_\_\_\_
- 10) Find the height of a cone having the radius of the base as 5 cm and the volume of a cone is  $44 \text{ cm}^3$ ?  
\_\_\_\_\_

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### Solve the problems.

- 1) A container is shaped like a cone and contains oil. The radius is 5 feet and the height is 7 feet. If the container can release oil from its bottom at the rate of 20 cubic feet per minute, how long would it take for the container to empty fully? Use ( $\pi = 3.14$ ).
- 9.158  $\approx$  9 minutes
- 2) Calculate the volume of a cone if the height is 12 cm and the radius is 7 cm
- 615.44  $\approx$  615 cm<sup>3</sup>
- 3) Find the height of a cone having the radius of the base as 5 cm and the volume of a cone is 44 cm<sup>3</sup>?
- 1.68  $\approx$  1.7 cm
- 4) Find the volume of a cone having the radius of the base as 10 cm and the height of the cone is 12 cm?
- 1256 cm<sup>3</sup>
- 5) Calculate the volume of a cone having the radius of the base as 7 m and the height of the cone is 13 m?
- 666.72  $\approx$  667 m<sup>3</sup>
- 6) Find the radius of a cone whose volume is 33.49 cm<sup>3</sup> and height 2 cm.
- 4 cm
- 7) A container is shaped like a cone and contains oil. The radius is 7 feet and the height is 8 feet. If the container can release oil from its bottom at the rate of 12 cubic feet per minute, how long would it take for the container to empty fully? Use ( $\pi = 3.14$ ).
- 34.19  $\approx$  34
- 8) Calculate the height of a cone whose volume is 37680 cm<sup>3</sup>, radius 30 cm and slant length is 50 cm.
- 40 cm
- 9) Find the volume of a cone having the radius of the base as 7 m and the height of the cone is 9 m?
- 461.58  $\approx$  462 m<sup>3</sup>
- 10) Find the height of a cone having the radius of the base as 5 cm and the volume of a cone is 44 cm<sup>3</sup>?
- 1.68  $\approx$  1.7 cm