Volume of a Cone

Name:_____ Date:_____

Solve the problems.

1) The height and diameter of a cone-shaped bottle are 1 feet and 2 feet respectively. Find the volume of water the bottle can hold. Use (π= 3.14).

$1.04 \approx 1\ ft^3$

2) Calculate the volume of a cone if the height is 12 cm and the radius is 7 cm

3) Find the volume of a cone whose height is 5 cm and slant length is 13 cm.

4) The height and radius of a cone-shaped bottle are 2 feet and 4 feet respectively. Find the volume of water the bottle can hold. Use (π= 3.14).

5) 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 (π= 3.14).

6) Find the volume of a cone having the radius of the base as 10 cm and the height of the cone is 12 cm?

7) Calculate the volume of a cone having the radius of the base as 6 cm and the height of the cone is 10 cm?

8) Find the radius of a cone having the volume of 30 cm^3 and the height of the cone is 8 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) Calculate the height of a cone whose volume is 301.44 cm^3, radius is 6cm and slant length is 10 cm.

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1) The height and diameter of a cone-shaped bottle are 1 feet and 2 feet respectively. Find the volume of water the bottle can hold. Use (π= 3.14).

$1.04 \approx 1\ ft^3$

2) Calculate the volume of a cone if the height is 12 cm and the radius is 7 cm

$615.44 \approx 615\ cm^3$

3) Find the volume of a cone whose height is 5 cm and slant length is 13 cm.

$753.6 \approx 754\ cm^3$

4) The height and radius of a cone-shaped bottle are 2 feet and 4 feet respectively. Find the volume of water the bottle can hold. Use (π= 3.14).

$33.49 \approx 33\ ft^3$

5) 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 (π= 3.14).

$9.158 \approx 9$ minutes

6) Find the volume of a cone having the radius of the base as 10 cm and the height of the cone is 12 cm?

$1256\ cm^3$

7) Calculate the volume of a cone having the radius of the base as 6 cm and the height of the cone is 10 cm?

$376.8 \approx 377\ cm^3$

8) Find the radius of a cone having the volume of 30 cm^3 and the height of the cone is 8 cm?

$1.89 \approx 2$ 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?

$461.58 \approx 462\ m^3$

10) Calculate the height of a cone whose volume is 301.44 cm^3, radius is 6cm and slant length is 10 cm.

8 cm