Volume of a Cone

Name:_____ Date:_____

Solve the problems.

1) Find the volume of a circular cone whose height is 4 m and slant length is 5 m.

_____

2) Find the height of a cone whose volume is 12 cm^3 and radius 2 cm.

_____

3) Find the volume of a cone whose height is 24 cm and slant length is 25 cm.

_____

4) 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 (π= 3.14).

_____

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 8.37 cm^3 and height 2 cm.

_____

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

_____

8) Calculate the height of a cone whose volume is 37680 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 9 m and the height of the cone is 15 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 cm^3?

_____

Volume of a Cone

Name:_____ Date:_____

Solve the problems.

1) Find the volume of a circular cone whose height is 4 m and slant length is 5 m.

37.68 ≈ 38 m^3

2) Find the height of a cone whose volume is 12 cm^3 and radius 2 cm.

1.69 ≈ 2 cm

3) Find the volume of a cone whose height is 24 cm and slant length is 25 cm.

1230.88 ≈ 1231cm^3

4) 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 (π= 3.14).

34.19 ≈ 34 minutes

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 ≈ 667 m^3

6) Find the radius of a cone whose volume is 8.37 cm^3 and height 2 cm.

2 cm

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

3.18 ≈ 3 cm

8) Calculate the height of a cone whose volume is 37680 cm^3, 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 9 m and the height of the cone is 15 m?

1271.7 ≈ 1272 m^3

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^3?

1.68 ≈ 1.7 cm