

Name: _____ Period: _____

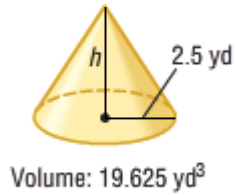
Score:

_____/_____
_____% = _____

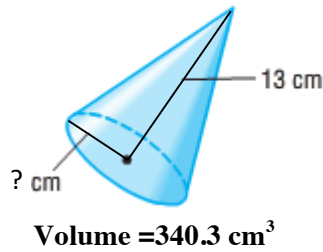
HW 9-3: Use Volume to Find Radius or Height

Find the missing dimension (r or h) in the following 3D figures. If necessary, round your answers to the nearest tenth.

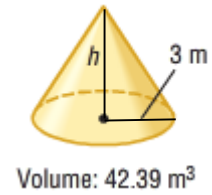
1)



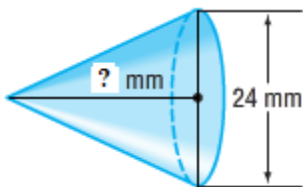
2)



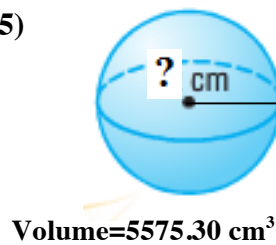
3)



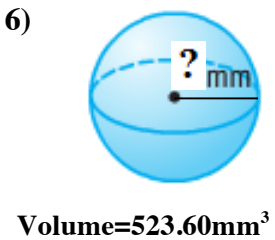
4)



5)



6)



7) Volume of Sphere
= 5747.0 cm^3

$r=?$

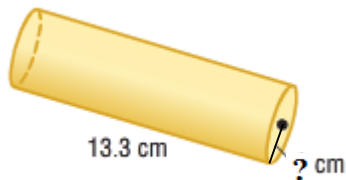
8) Volume of Hemisphere
= 2.1 cm^3

$r=?$

9) Volume of Hemisphere
= 1526.8 m^3

$r=?$

10)



Volume = 167.1 cm^3

11) Volume of a Cylinder
= $2,770.9 \text{ yd}^3$
 $r = 10.5 \text{ yd}$ $h=?$

12)



$h=?$

Volume = 226.2 ft^3

13) Volume of a cone
= 272.0 mm^3
 $r = 4.35 \text{ mm}$ $h=?$

14) Volume of a cylinder
= 1120.0 in^3
 $r = 11 \frac{1}{2} \text{ in}$ $h=?$

15) The volume of a cylinder
is 75.36 cm^3 . If the height
is 6 cm, find the diameter.