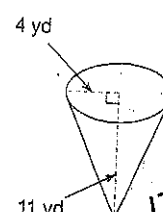


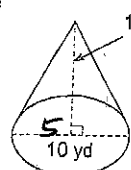
$$B \cdot H \quad \frac{1}{3}BH \quad \frac{4}{3}\pi r^3$$

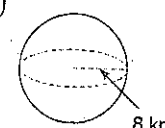
Volume of Cylinders, Cones and Spheres

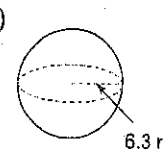
Date _____ Period _____

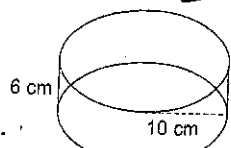
Find the volume of each figure. Round your answers to the nearest tenth, if necessary. Leave your answers in terms of π for answers that contain π .

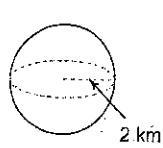
1)  $V = \frac{1}{3}B \cdot H$
 $V = \frac{1}{3}(16\pi)(11)$
 $V = 58.7\pi \text{ yd}^3$

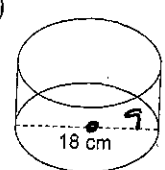
2)  $V = \frac{1}{3}B \cdot H$
 $V = \frac{1}{3}(25\pi)(12)$
 $V = 100\pi \text{ yd}^3$

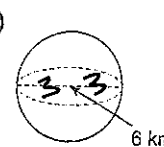
3)  $V = \frac{4}{3}\pi r^3$
 $V = \frac{4}{3}\pi(8)^3$
 $V = 682.7\pi \text{ km}^3$

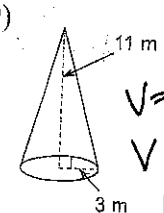
4)  $V = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi(6.3)^3$
 $V = 333.4\pi \text{ mi}^3$

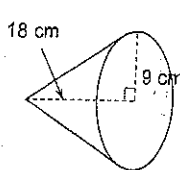
5)  $V = B \cdot H$
 $V = 100\pi(6)$
 $V = 600\pi \text{ cm}^3$

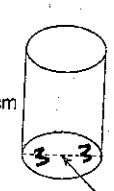
6)  $V = \frac{4}{3}\pi r^3$
 $V = \frac{4}{3}\pi(2)^3$
 $V = 10.7\pi \text{ km}^3$

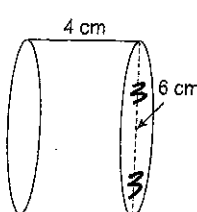
7)  $V = B \cdot H$
 $V = 81\pi(8)$
 $V = 648\pi \text{ cm}^3$

8)  $V = \frac{4}{3}\pi r^3$
 $V = \frac{4}{3}\pi(3)^3$
 $V = 36\pi \text{ km}^3$

9)  $V = \frac{1}{3}BH$
 $V = \frac{1}{3}(9\pi)(11)$
 $V = 33\pi \text{ m}^3$

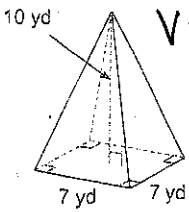
10)  $V = \frac{1}{3}BH$
 $V = \frac{1}{3}(81\pi)(18)$
 $V = 486\pi \text{ cm}^3$

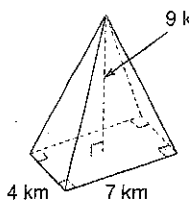
11)  $V = BH$
 $V = 9\pi(8)$
 $V = 72\pi \text{ cm}^3$

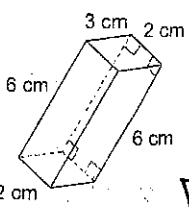
12)  $V = BH$
 $V = 9\pi(4)$
 $V = 36\pi \text{ cm}^3$

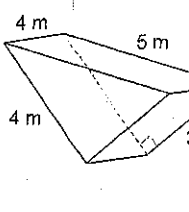
Volume of Prisms and Pyramids

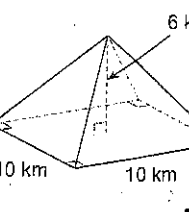
Find the volume of each figure. Round your answers to the nearest tenth, if necessary.

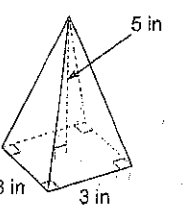
1)  $V = \frac{1}{3} B H$
 $\frac{1}{3} (49) (10)$
 $V = 163.3 \text{ yd}^3$

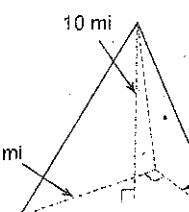
2)  $V = \frac{1}{3} B H$
 $V = \frac{1}{3} (20) (9)$
 $V = 84 \text{ km}^3$

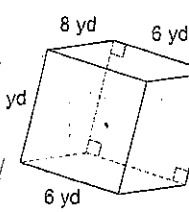
3)  $V = B H$
 $V = b(b)$
 $V = 36 \text{ cm}^3$

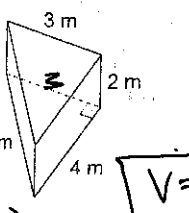
4)  $V = B \cdot H$
 $V = (\frac{1}{2} \cdot 4 \cdot 3) (4)$
 $V = 24 \text{ m}^3$

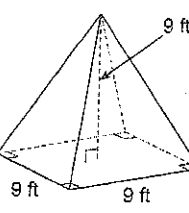
5)  $V = \frac{1}{3} B H$
 $\frac{1}{3} (100) (6)$
 $V = 200 \text{ km}^3$

6)  $V = \frac{1}{3} B H$
 $\frac{1}{3} (9) (5)$
 $V = 15 \text{ in}^3$

7)  $V = \frac{1}{3} B H$
 $\frac{1}{3} (64) (10)$
 $V = 80 \text{ mi}^3$

8)  $V = B H$
 $V = 48 (6)$
 $V = 288 \text{ yd}^3$

9)  $b(2)$
 $V = 12 \text{ m}^3$
 $\frac{1}{2} (4) (3) = 6$

10)  $V = \frac{1}{3} B H$
 $\frac{1}{3} (81) (9)$
 $V = 243 \text{ ft}^3$