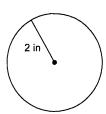
Area and Volume Review

Period Date

Find the area of each. Leave answers in terms of pi.

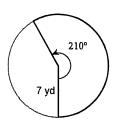
1)



2) diameter = 24 ft

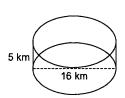
Find the area of each sector. Leave answers in terms of pi.

3)

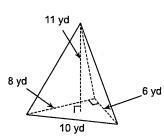


Find the volume of each figure. Round your answers to the nearest hundredth, if necessary. Leave your answers in terms of π for answers that contain π .

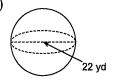
4)

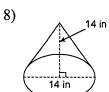


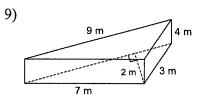
5)



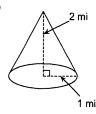
6)



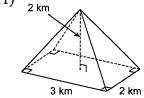




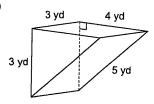
10)

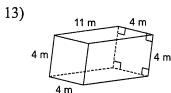


11)

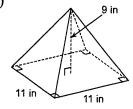


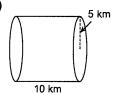
12)





14)



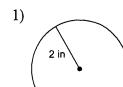


Name

Period Date

Area and Volume Review

Find the area of each. Leave answers in terms of pi.

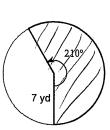


$$A=\pi(2)^{3}$$

2) diameter =
$$24 \text{ ft}$$

$$A = \pi (12)^2$$

Find the area of each sector. Leave answers in terms of pi.



$$\frac{S}{\pi r^2} = \frac{210}{360}$$

$$\frac{5}{(7)^2} = \frac{7}{12}$$

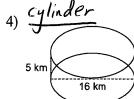
$$12S = 343\pi$$

$$\frac{S}{\pi(7)^2} = \frac{7}{12}$$

$$S = \frac{343}{12} \pi \text{ yd}^2$$

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

Leave your answers in terms of π for answers that contain π .



$$V=\pi r^2 h$$

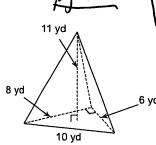




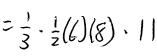
 $V = \frac{4}{3}\pi (11)^3$

$$V = \frac{5324}{3} \text{ Tyd}^3$$

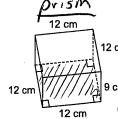
5)



$$V=\frac{1}{3}B\cdot L$$







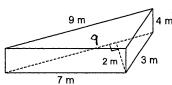


$$V = \frac{1}{3}\pi(7)^{2}(14)$$

 $V=\frac{1}{3}\pi r^2 h$

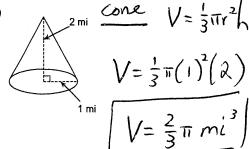
$$V = \frac{686}{3}\pi \text{ in}^3$$

V= B.h

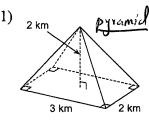


$$V = \frac{1}{2}(9)(2) \cdot 4$$

$$V = 36 \text{ m}^{3}$$



11)

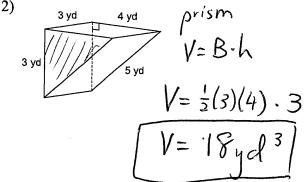


N= = BL

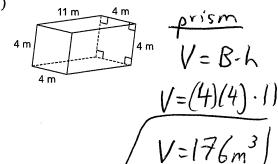
$$V = \frac{1}{3}(3)(2) \cdot 2$$

$$V = 4 \, km^3$$

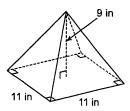
12)



13)

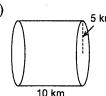


14)



Pyramid V= 3Bh

$$V = 363 in$$



$$V = \pi(5)^{2}(10)$$

$$V = 250\pi \text{ km}^{3}$$