

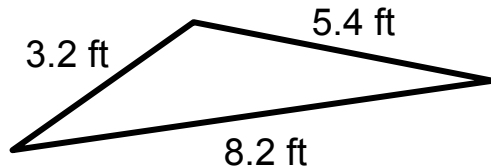
Math 1333 Chapter 8 & 9 Unit Test 3

Name: _____

Section: _____

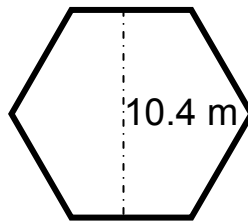
Be sure to show all your work and circle your answer.

Find the following. Round your answer to three significant digits:



1) Find the perimeter.

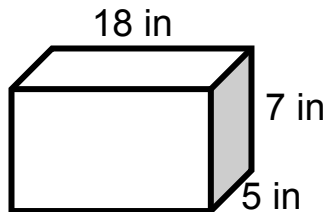
2) Find the area.



(assume all the sides are equal)

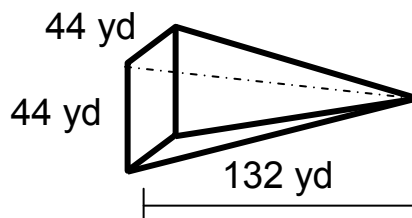
3) Find the perimeter.

4) Find the area.



5) Find the volume.

6) Find the surface area.

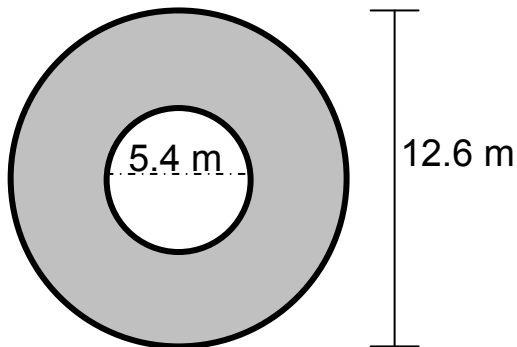


7) Find the volume.

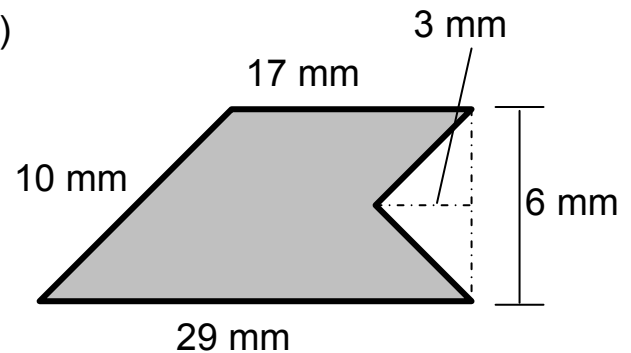
8) Find the lateral surface area.

Find the area of the shaded region. Round your answer to three significant digits:

9)

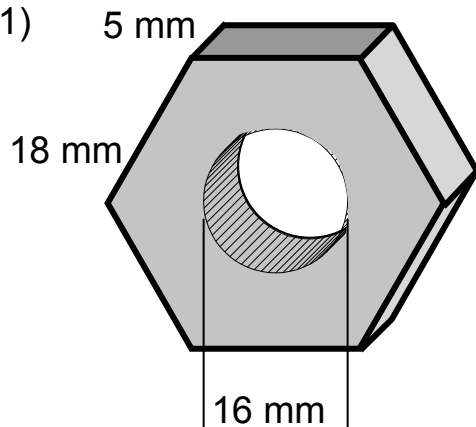


10)

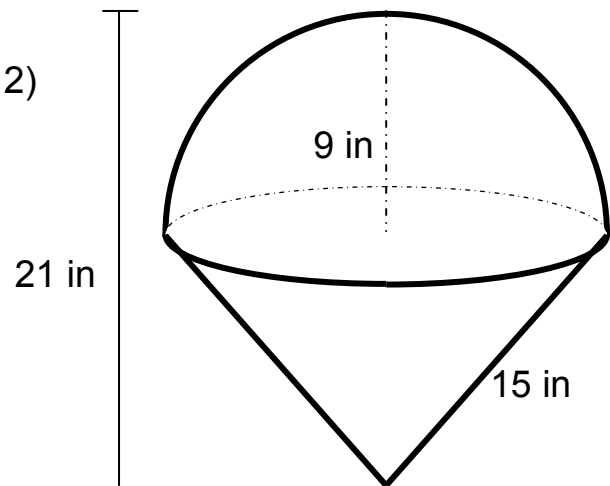


Find the volume of the following. Round your answer to three significant digits:

11)

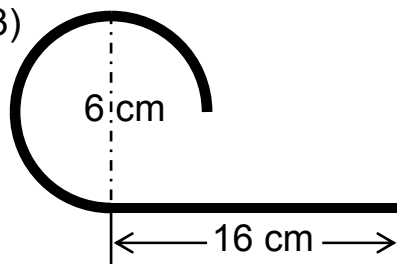


12)



Find the length of stock needed to create the following shapes. Assume the stock is 1 cm thick. Round to one decimal place:

13)



- 14) If glass weighing 0.018 lb/in^2 is used to make a fish tank that is $24 \frac{1}{4}$ inches long, $12 \frac{1}{2}$ inches wide, and $12 \frac{3}{4}$ high, how many pounds will the tank weigh when empty? Assume there is no glass on top and the frame weighs 0.500 lb .
- 15) A feeding trough will be constructed from sheet metal as a half a cylinder lying on its side. If the length of the trough will be 32.0 ft , what diameter must the trough be to hold 110 ft^3 of feed?
- 16) How many feet of fencing is needed to enclose the following piece of land?



- Fall, 2008