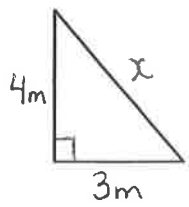
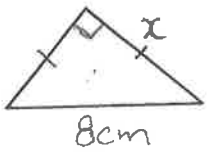
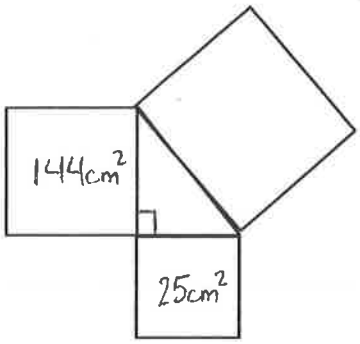
Pythagorean, Surface Area, & Volume Test

Name: _____ Div.: _____ Date: _____

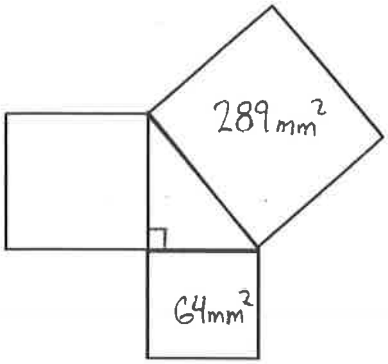
Prime Factor and determine if it is a perfect square:	
1) $\sqrt{316}$	2) $\sqrt{200}$
Reduce (Show your work):	
3) $\sqrt{\frac{45}{80}}$	4) $\sqrt{\frac{1}{16}}$
Solve for x	
5) $\sqrt{x} = 6$	6) $\sqrt{x^2} = 4$
Find the missing length(s):	
7) 	8) 

Find the Perimeter of the Triangle:

9)

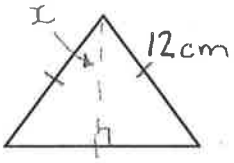


10)

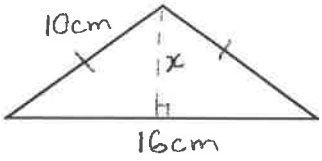


Find x

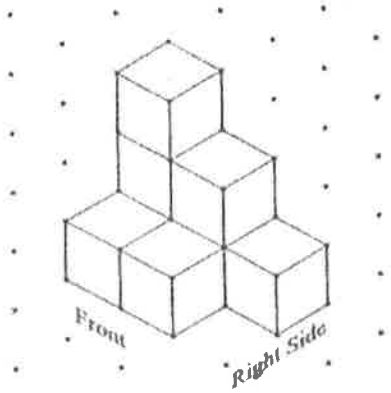
11)



12)

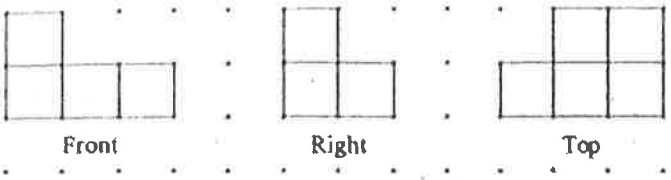


13) Draw the corresponding views from the given Isometric Drawing:

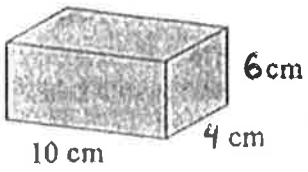


Front Right Top

14) Based on the views given draw the Isometric 3D shape:



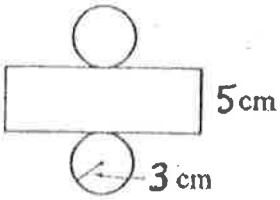
15) Find the surface area and volume of the following shapes:



Surface Area: _____

Volume: _____

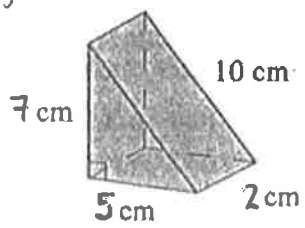
16)



Surface Area: _____

Volume: _____

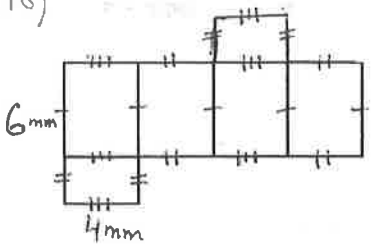
17)



Surface Area: _____

Volume: _____

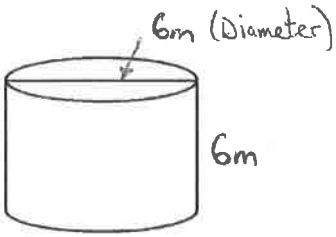
18)



Volume: 72 mm³

Surface Area: _____

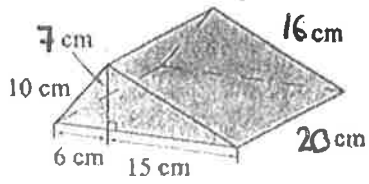
19)



Surface Area: _____

Volume: _____

20)



Surface Area: _____

Volume: _____