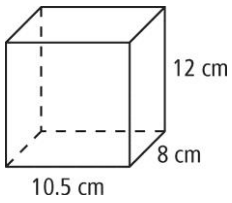
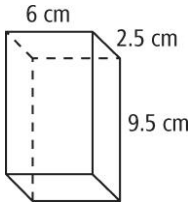
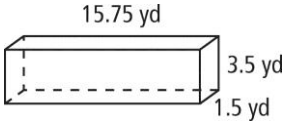
Name_____ Date_____

11.4 – Volume of Prisms and Cylinders

Find the volume of each rectangular prism. Round to the nearest 0.1 if necessary.

1) 

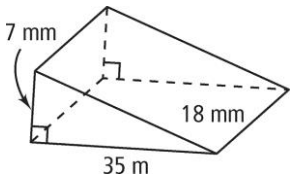
2) 

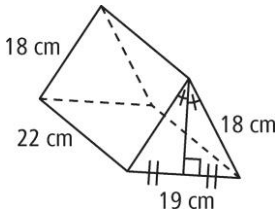
3) 

4) The base is a square, 4.5 cm on a side. The height is 5 cm.

5) The base is a rectangle with length 3.2 cm and width 4 cm. The height is 10 cm.

Find the volume of each triangular prism to the nearest tenth.

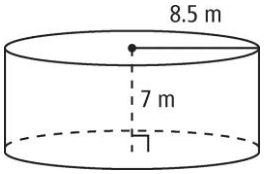
6) 

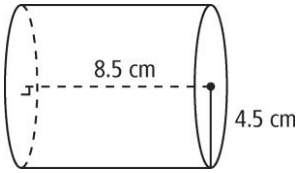
7) 

8) The base is a right triangle with a leg of 12 in. and hypotenuse of 15 in. The height of the prism is 10 in.

9) The base is a 30°-60°-90° triangle with a hypotenuse of 10 m. The height of the prism is 15 m. Find the volume to the nearest tenth.

Find the volume of each cylinder in terms of π and to the nearest tenth.

10) 

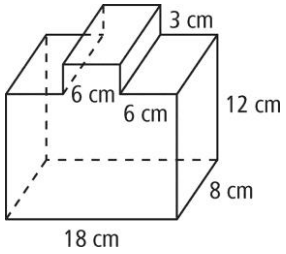
11) 

12) a right cylinder with a radius of 3.2 cm and a height of 10.5 cm

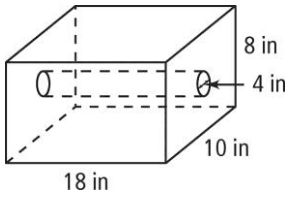
13) a right cylinder with a diameter of 8 ft and a height of 15 ft.

Find the volume of each composite figure to the nearest whole tenth.

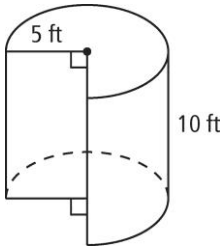
14)



15)

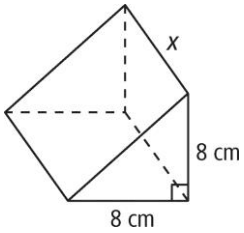


16)

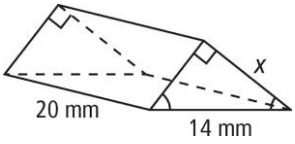


Find the value of x to the nearest tenth.

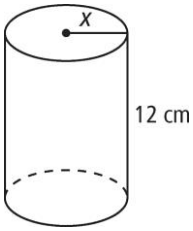
17) Volume: 576 cm^3



18) Volume: 980 mm^3



19) Volume: 602.88 cm^3



10) What is the volume of the solid figure formed by the net?