VOLUME OF CYLINDERS

Name: _____ Class: _____ Due Date: _____

Family Member Signature: _____

Objective:

To determine the volume of cylinders using our knowledge of circles.

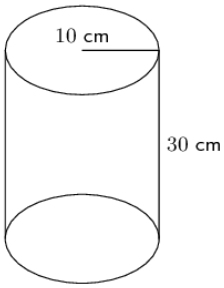
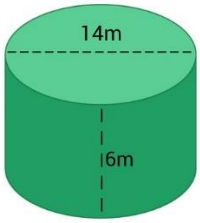
Necessary Information:

Calculators Allowed

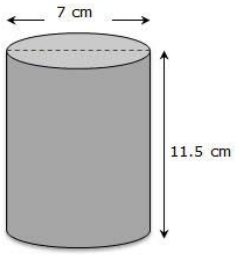
Area of a circle = π x r x r $\qquad$ $V_{prism} = A_{base} \times h_{prism}$

Practice Section:

1) Find the volume of each cylinder.

Cylinder	**A_{base}**	**h_{prism}**	**V_{prism}**
a) 			
b) 			
c) 			

d)

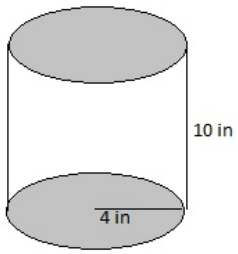


A_{base} = _____

h_{prism} = _____

V_{prism} = _____

e)



A_{base} = _____

h_{prism} = _____

V_{prism} = _____

f) A cylinder measuring 10 feet tall that has a circle base with a radius of 6 feet.

A_{base} = _____

h_{prism} = _____

V_{prism} = _____

g) A circle base with diameter of 1.2 km and a prism height of 5.5 km.

A_{base} = _____

h_{prism} = _____

V_{prism} = _____

In <u>Your</u> Real World:

With a family member, answer the following question.

Christian Marian Becheanu saved a toddler in 2013 by allowing himself to be lowered 50 feet down a well that measured 1.5 feet across.

a) Determine the volume of space Christian travelled through until he reached the toddler.