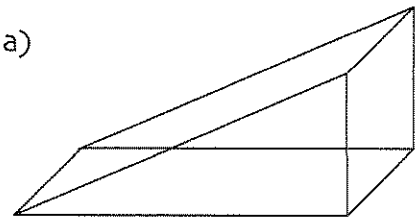
A New Look at Boxing
Test Review

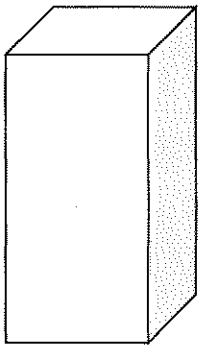
Name: _____
Date: _____ **Hr:** _____

1. Sketch a net for each of the following prisms:

a)



b)



4. An artist is designing a sculpture that includes a polygon with 60 sides.

a) Find the measure of one exterior angle.

b) Find the measure of one interior angle.

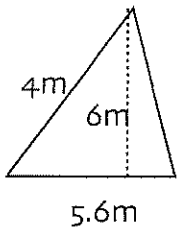
c) Find the sum of the measures of the interior angles.

d) Find the sum of the measures of the exterior angles.

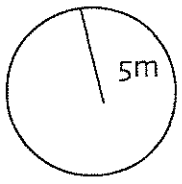
5. Which polygons will tessellate a plane? Why?

6. Find the area of the following figures:

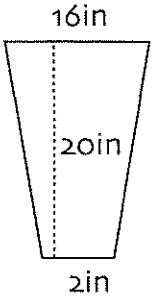
a)



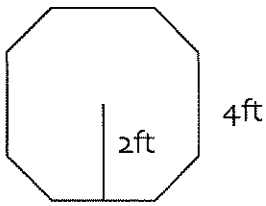
b)



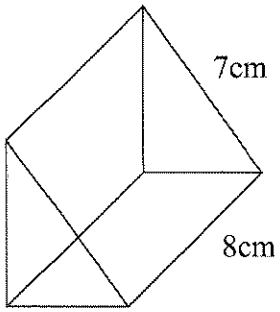
c)



D)



7.a) Sketch a net for the prism shown to the right.



NET:

b) What are the dimensions of the ***smallest rectangle*** that will enclose the net?

c) What is the ***area*** of this rectangle?

d) Suppose you used a rectangular sheet of cardboard to construct the prism. What ***percentage*** of cardboard would be wasted?

8. Given that the measure of one INTERIOR angle is 120 degrees, find the following:

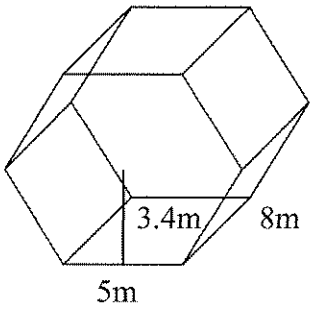
a) The measure of one EXTERIOR angle of the polygon

b) The number of sides in the poygon

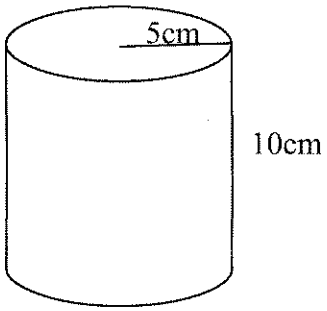
9) A box manufacturer wishes to cut templates from a roll of cardboard 300cm wide and 5m long. The dimensions of the smallest rectangle that will enclose the template are 10.2cm and 3.5cm. How many templates can be cut from one roll?

10) Find the surface area of the following:

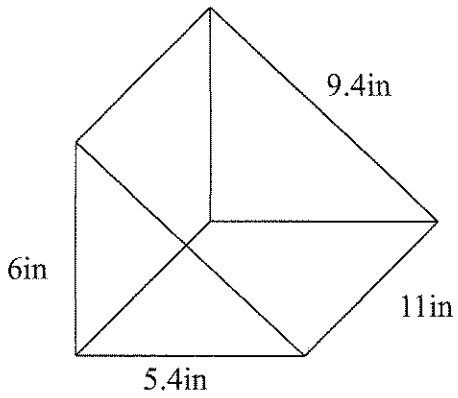
a)



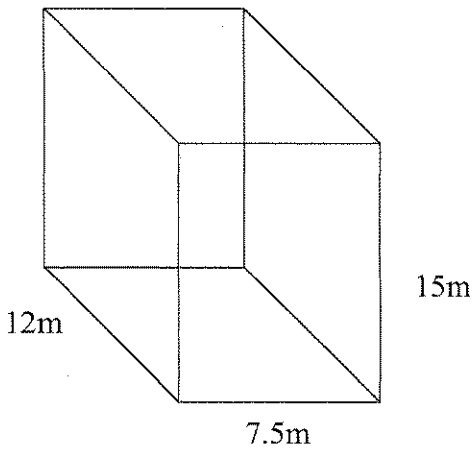
b)



c)



d)



11) Define the following terms:

Term	Definition
Prism	
Lateral Faces	
Bases	
Template	
Net	
Surface Area	
Tessellation	
Apothem	

12) Write the formula for each of the following and draw a picture to represent the formula!

	Formula
Measure of an Exterior Angle	
Measure of an Interior Angle	
Sum of Exterior Angles	
Sum of Interior Angles	
Area of Regular Polygon	
Area of Rectangle	
Area of Triangle	
Area of Circle	
Area of Trapezoid	
Surface Area of Cylinder	