A New Look at Boxing

Activity 2 Notes Day 1

Name: _____

Date: _____ Hr: ___

Define:

Tesselate/Tile:

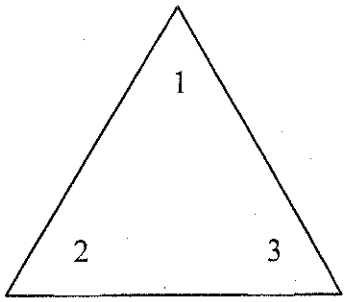
Installing floor tiles is similar to covering a plane with regular polygons. Since squares fit together easily without gaps or overlays, many floor tiles are square. However, it is also possible to tile a floor with other polygons.

Activity:

a. Use the templates of the polygons provided in order to figure out which would tessellate the plane.
b. If it does tessellate, trace the figure at least 3 times in order to prove it.

TRIANGLE	***SQUARE***
PENTAGON	***HEXAGON***
OCTAGON	***12-GON (12 SIDED FIGURE)***

c. Extend the sides of the equilateral triangle to form three equal exterior angles.



Measure of all angles in a triangle =

d. Without measuring, determine the sum of the measures of the exterior angles.
Hint: Walk around the triangle

e. Complete the following table:

# of Sides of Polygon	*Measure of Exterior Angle (x)*	*Measure of Interior Angle (i)*	*# of Polygons that FIT at ONE vertex*
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
Formula			