Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Intro to Geometry...**

**What do You Already Know?**

**1. Quadrilaterals: Fill in the blanks.**

The class of shapes called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ has these properties: 4 straight sides, 2

pairs of \_\_\_\_\_\_\_\_\_ sides, and 4 right angles. Quadrilaterals (a class of shapes that includes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ) also have 4 straight \_\_\_\_\_\_\_\_\_ , but only some quadrilaterals have 4 \_\_\_\_\_\_\_\_\_\_\_ angles. So, having 4 right angles is a property of all rectangles, but not all quadrilaterals. If a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ has 4 right angles and 4 sides of equal length, it is called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ . A \_\_\_\_\_\_\_\_\_\_\_\_ is a special type of quadrilateral.

**2. Comparing Shapes**

a) Copy this shape:

b) Now draw a shape that is different from the shape in one way, but the same in another way. How are they alike? How are they different?

***over --->***

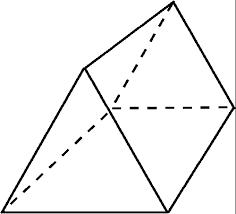
**3. Vocabulary**

(For each of the following words, check the most appropriate box.)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Word** | Never heard  of it | Heard of the word, but not sure what it means | Know the word | Know the word and can use it accurately to describe my thinking in math |
| quadrilateral |  |  |  |  |
| parallel |  |  |  |  |
| transversal |  |  |  |  |
| interior angle |  |  |  |  |
| complementary angle |  |  |  |  |
| right triangle |  |  |  |  |
| pythagorean relationship |  |  |  |  |
| vertices |  |  |  |  |
| polydron |  |  |  |  |
| polyhedron |  |  |  |  |
| platonic solid |  |  |  |  |

**4. Shape Examination**

Tell how many faces, edges and vertices each of the following shapes has:

[](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0CAcQjRw&url=http%3A%2F%2Fwww.narragansett.k12.ri.us%2Fresources%2FNECAP%2520support%2Fgle_support%2FMath%2Fresources_geometry%2F3d_shapes.htm&ei=k5lSVJCAOtGUyATL8YDoDg&bvm=bv.78597519,d.aWw&psig=AFQjCNGdqQYbcMhRCvsUc4xu0SOdDGrwxA&ust=1414785802642773)

# of faces: \_\_\_\_\_\_ # of faces: \_\_\_\_\_\_

# of edges: \_\_\_\_\_\_ # of edges: \_\_\_\_\_\_

# of vertices: \_\_\_\_\_\_\_\_ # of vertices: \_\_\_\_\_\_\_\_

**5. Angle Matching**

Match the measurement to the most correct angle.

1. 45º 1)
2. 90º 2)
3. 120 º 3)
4. 175 º 4)
5. 300 º 5)

**6. Using a protractor**

1. What is the measurement of the following angle?
2. Draw a 165 º angle below.