

Name: _____

Date: 12/11/2002

Class: 8- _____

Math Test #1

1) Draw the coordinate axes.

Graph and connect the points: **A** (4, 2), **B** (2, -1), **C** (-4, -1), **D** (-2, 2).



Find the measure of each angle in the figure if $a \parallel b$ and $m\angle 8 = 110^\circ$.

2) $m\angle 5 =$

3) $m\angle 6 =$

Classify each triangle by its angles **and** its sides.

4)

5)

6) Draw a triangular prism.

7) Name the solid at the right.

Label each figure as quadrilateral, parallelogram, rectangle, square, rhombus and/or trapezoid.

8)

9)

10) Write a capital letter of the English alphabet that has line symmetry.

11) Draw an isosceles triangle. Does it have line symmetry? If so, draw the lines of symmetry.

Determine whether each set of triangles is congruent. If so, write a congruency statement and name state the law that applies.

12)

13)

14)

Determine whether each pair of triangles is congruent, similar, or neither.

15)

16)

17)

18) True or False – Two triangles that are congruent are automatically similar.

In the accompanying diagrams, which type of transformation makes triangle 1 into triangle 2?

19)

20)

21) Examine the following geometric pattern.

1st

2nd

3rd

How many triangles will be in the 4th in pattern? _____

How many triangles will be in the 5th in pattern? _____

How many triangles will be in the 10th in pattern? _____