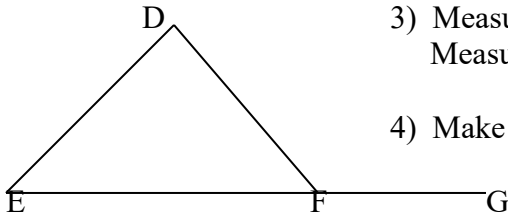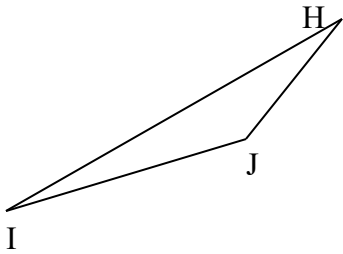A

1) Using a ruler measure AB and AC. What do you notice?
   This is an example of an _____ triangle.

2) Measure angle ABC and ACB. What do you notice?
   Therefore, if a triangle has congruent sides, the angles
   opposite must be _____.

B   C

D

3) Measure angle D _____. Measure angle E _____
   Measure angle DFG.

4) Make a conclusion regarding the relationship between
   angles D and E and F.

E   F   G

H

5) Measure sides HI, HJ, and IJ.

6) Measure angles H, I and J.

J

7) What type of triangle is HIJ?

I

8) If a triangle has sides that are unequal then the angles are

   _____.

In triangle ABC below, label the following:
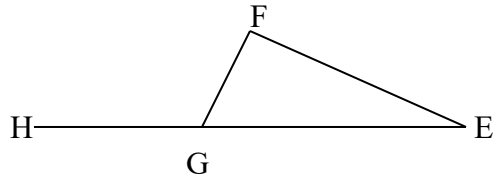a) Vertex   b) Sides   c) 1 interior angle   d) exterior angle   e) altitude
e) median

B

A

E   D   C   F
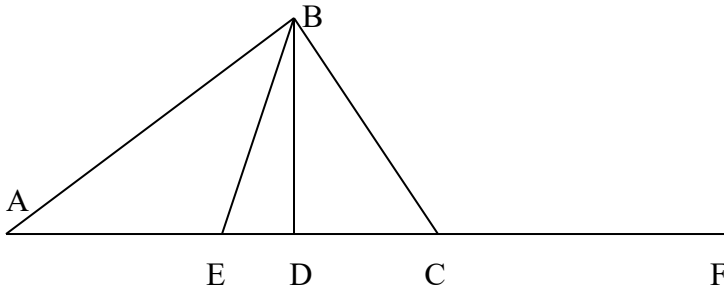
Fill in: The sum of any two sides of a triangle must be _____ the 3rd side.

Examples:

1) Find the measure of angle FGH.

2) If the ratio of the degree measures of a triangle are 1: 3: 5, what is the degree of the measure of the smallest angle?

3) LMN and LNO below are isosceles triangles with the measure of angle MLN = 55 and the measure of angle LON equal to 60. If LN = LM and LN = NO, what is the measure of angle MNO?