

Name \_\_\_\_\_

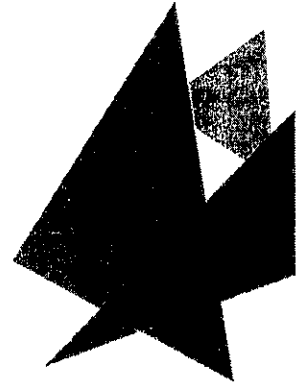
Mrs. Roubos/Ms. Michels

Date \_\_\_\_\_

8R Period \_\_\_\_\_

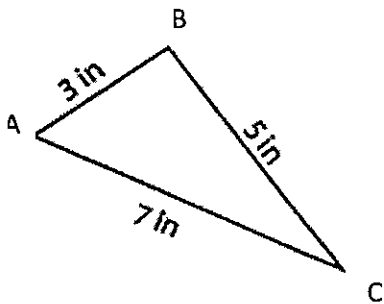
## Types of Triangles

Today you will learn how triangles can be classified in two different ways...

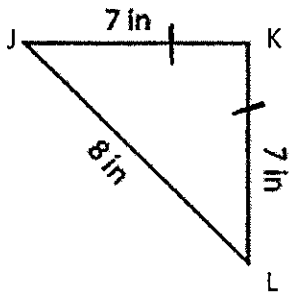


### Classified by Sides:

- 1) A **Scalene Triangle** has no congruent sides.
  - Each side in this triangle has a different length.

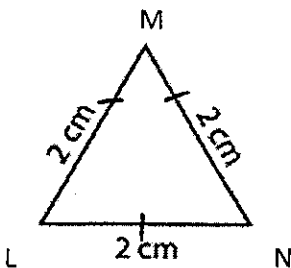


- 2) An **Isosceles Triangle** has two congruent sides.
  - The sides that are the same length are called the legs.
  - The other side is called the base.



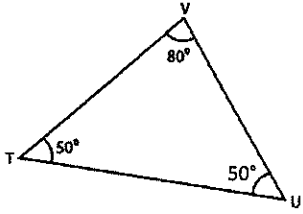
$$\overline{JK} \cong \overline{KL}$$

- 3) An **Equilateral Triangle** has three congruent sides.
  - All three sides of this triangle are the same length.

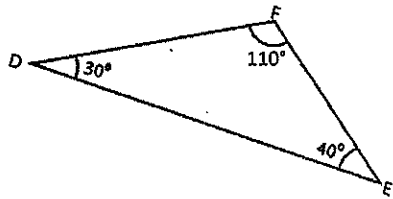


$$\overline{LM} \cong \overline{MN} \cong \overline{NL}$$

## Classified by Angles

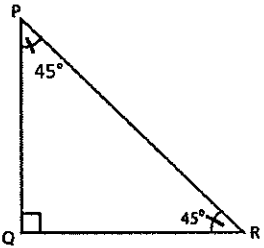


1) An Acute Triangle has all angles measuring less than  $90^\circ$ .



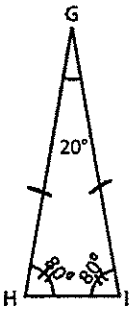
2) An Obtuse Triangle has one angle measuring more than  $90^\circ$ .

a. It is not possible to draw a triangle with more than one obtuse angle.

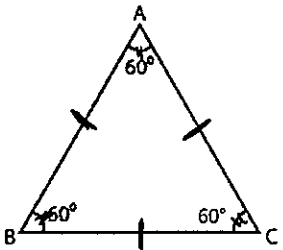


3) A Right Triangle has one right angle.

a. A right angle measures exactly  $90^\circ$ .



4) An Isosceles Triangle has two congruent angles called base angles. The third angle is called the vertex angle.



5) An Equiangular Triangle has three congruent angles.

a. All angles measure the same, and each angle measures  $60^\circ$ .

b. This triangle is the same as the equilateral triangle.