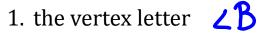
## 1.6 Angles and Their Measures

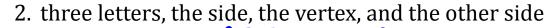
An <u>angle</u> consists of two rays that have the same endpoint.

The rays are the sides of the angle.

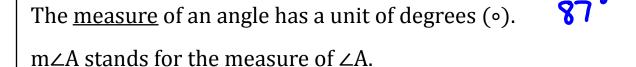
The endpoint is the <u>vertex</u> of the angle.

To name an angle, use the angle symbol and:









## Example 1: pg. 35 bottom checkpoint

**4** S

1. ∠RST 2. ∠HMN ← whole LTSR LHMK - KA ∠KMN ← right

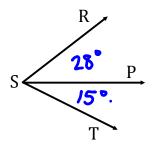
2M

Two angles are <u>congruent angles</u> if they have the same measure.

Angles are classified as:

- 1. acute greater than 0° but less than 90°
- 2. right exactly 90° by
- 3. obtuse greater than 90° but kss than 180°
- 4. straight exactly 180°

Angle Addition Postulate: If P is in the interior of  $\angle$ RST, then the measure of  $\angle$ RST is the sum of the measures of  $\angle$ RSP and  $\angle$ PST.



Example 2: pg. 37 bottom checkpoint

4. 
$$\angle ABD + \angle DBC = \angle ABC$$
  
 $60 + 20 = 80^{\circ}$ 

6. 
$$\angle DBC + \angle ABC = \angle DBA$$
  
 $60 + ? = 135$   
 $-60 - 60$   
 $\angle ABC = 75^{\circ}$ 

Name 1.6 Pg.38-40 # 1-29 34-39