

# Geometry

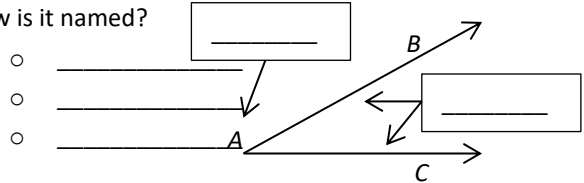
## 1.5 Measuring and Constructing Angles

### Angle

What is it like?

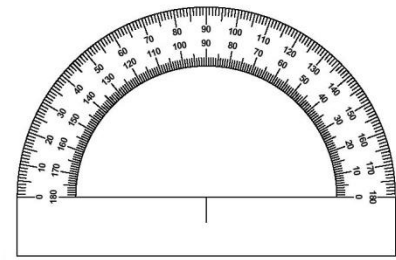
- Two \_\_\_\_\_ with common \_\_\_\_\_  
(\_\_\_\_\_)
- Formed when two lines \_\_\_\_\_

How is it named?



### Protractor Postulate

A protractor can be used to \_\_\_\_\_



### Angle Measure

What is it like?

- Difference of \_\_\_\_\_ of each ray on a \_\_\_\_\_
- $m\angle A =$  \_\_\_\_\_

How is it named?

- \_\_\_\_\_
- \_\_\_\_\_

### Classifying Angles

Acute

- \_\_\_\_\_

Right

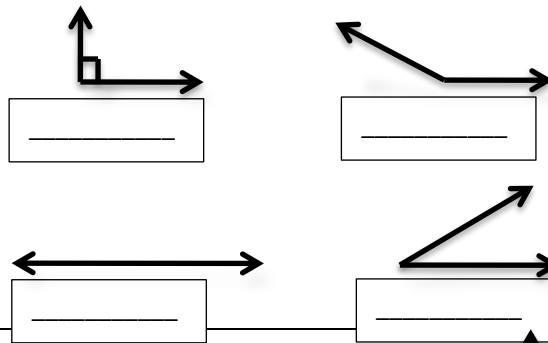
- \_\_\_\_\_

Obtuse

- \_\_\_\_\_

Straight

- \_\_\_\_\_



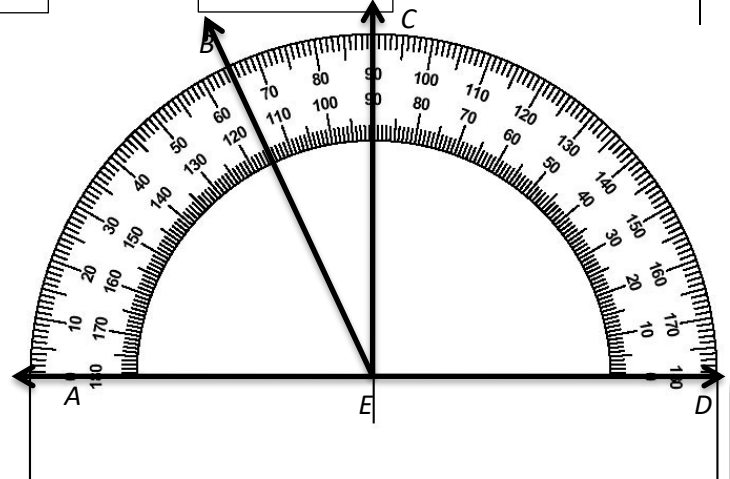
Find the measure of each angle and classify.

$\angle DEC$

$\angle DEA$

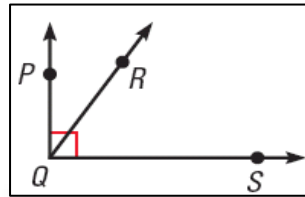
$\angle CEB$

$\angle DEB$



Name all the angles in the diagram.

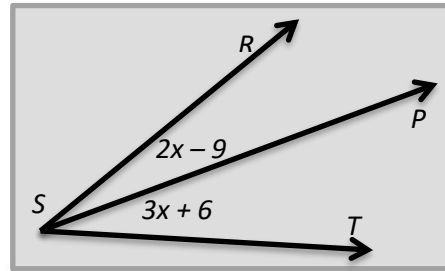
Which angle is a right angle?



**Angle Addition Postulate**

If  $P$  is in the interior of  $\angle RST$ , then \_\_\_\_\_

If  $m\angle RST = 72^\circ$ , find  $m\angle RSP$  and  $m\angle PST$



**Congruent Angles**

• What is it like?

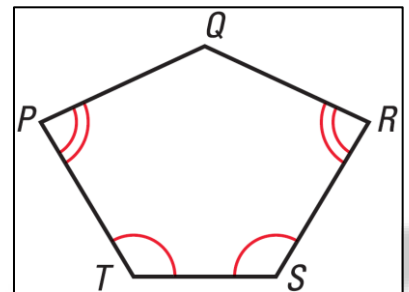
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

• What are examples?

- \_\_\_\_\_
- \_\_\_\_\_

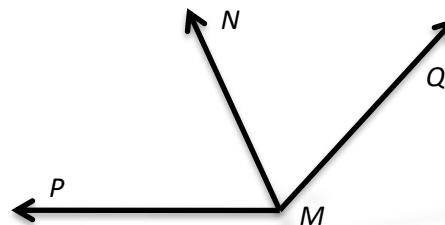
Identify all pairs of congruent angles in the diagram.

In the diagram,  $m\angle PQR = 130^\circ$ ,  $m\angle QRS = 84^\circ$ , and  $m\angle TSR = 121^\circ$ . Find the other angle measures in the diagram.



**Angle Bisector** is a \_\_\_\_\_ that divides an angle into \_\_\_\_\_ angles that are \_\_\_\_\_.

$\overrightarrow{MN}$  bisects  $\angle PMQ$ , and  $m\angle PMQ = 122^\circ$ . Find  $m\angle PMN$ .



Assignment: 41 #2, 4, 6, 8, 10, 12, 16, 18, 20, 22, 24, 26, 28, 32, 34, 36, 38, 46, 61, 69 = 20 total