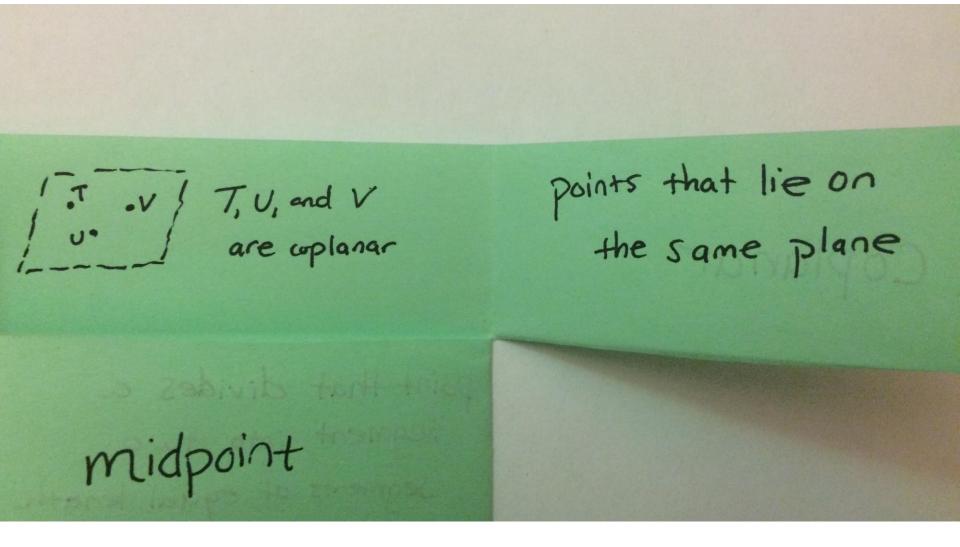
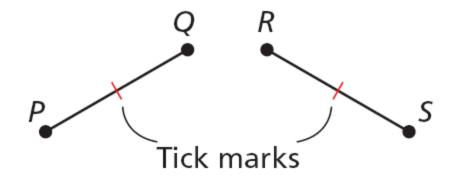
Coplanar

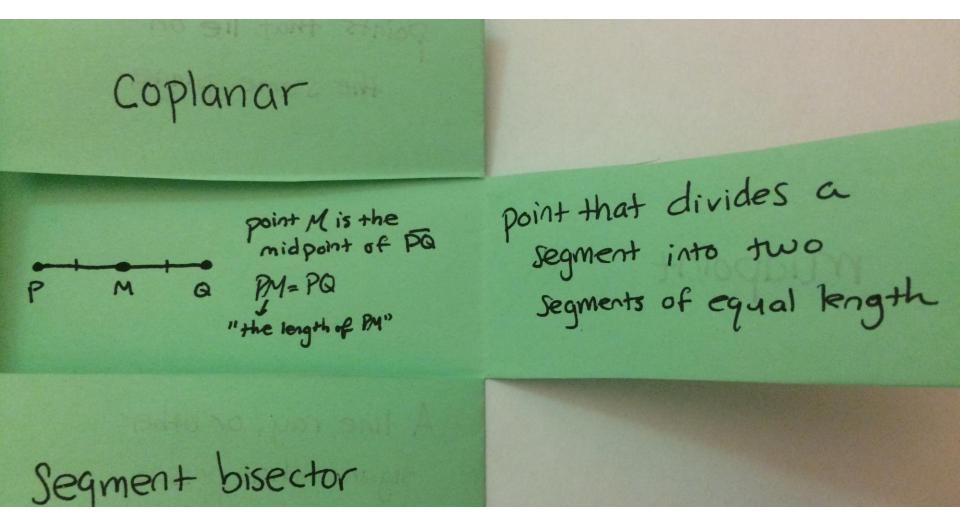


BACK OF FOLDABLE

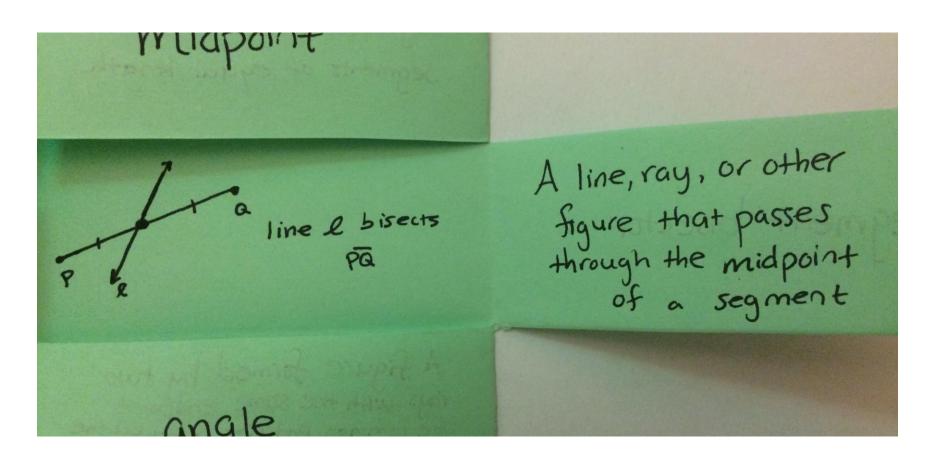
<u>Congruent segments</u> are segments that have the same length. In the diagram, PQ = RS. **Tick marks** are used in a figure to show segments of equal length.



Midpoint

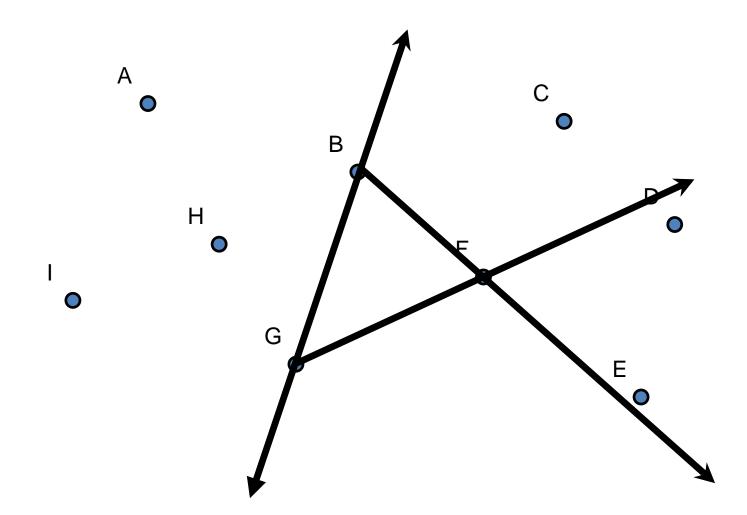


Segment Bisector



WHAT IS AN ANGLE?

Naming Angles



Angle

Segment bisector

B C LABC 3 vertex must be
LCBA 3 in the middle
when you name
congles!

acute right obtuse

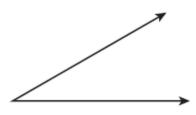
A figure formed by two rays with the same endpoint is called the The common endpoint is called the vertex of the engle.

The rays are the sides of the engle

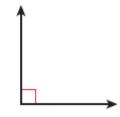
angle bisector

Types of Angles

Acute Angle

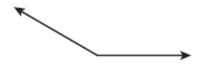


Measures greater than 0° and less than 90° Right Angle

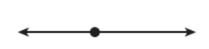


Measures 90°

Obtuse Angle

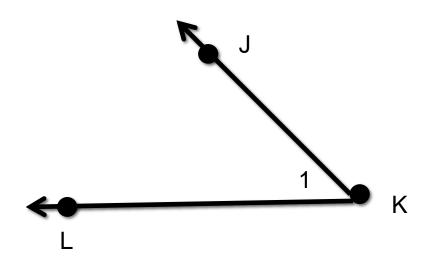


Measures greater than 90° and less than 180° Straight Angle



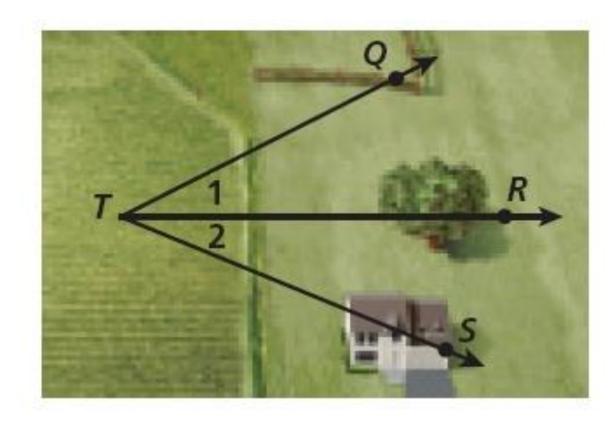
Formed by two opposite rays and meaures 180°

Give Four Ways to Name this Angle



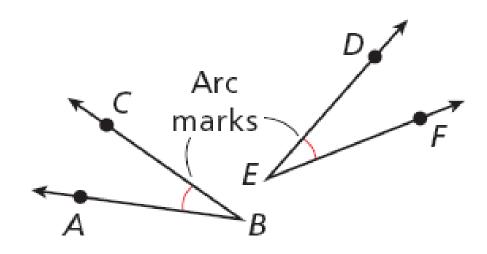
Write the different ways you can name the angles in the diagram.

∠*RTQ*, ∠*STR*, ∠1, ∠2



On back of foldable!

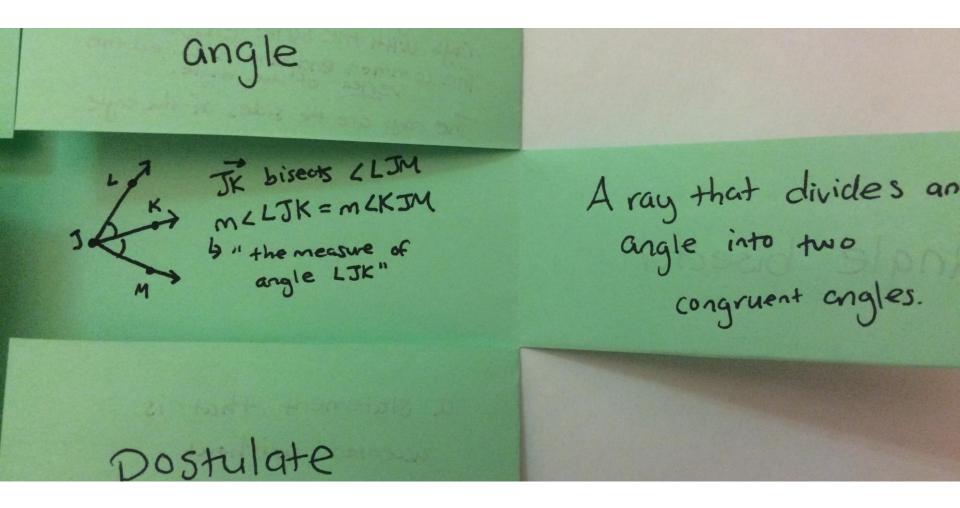
Congruent angles are angles that have the same measure. In the diagram, $m\angle ABC = m\angle DEF$. Arc marks are used to show that the two angles have equal measures.



A Distinction!

∠ABC refers to the angle m∠ABC refers to the measurement of the angle

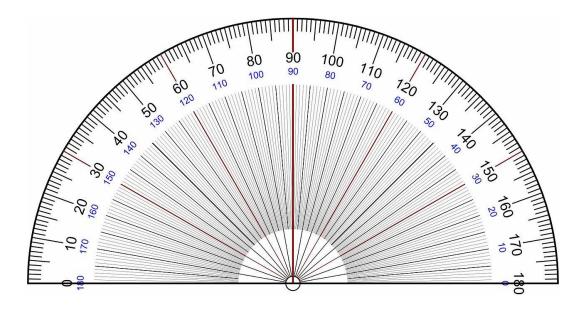
Angle Bisector



Measuring Angles

 The <u>measure</u> of an angle is usually given in degrees. Since there are 360° in a circle, one <u>degree</u> is 1/360 of a circle.

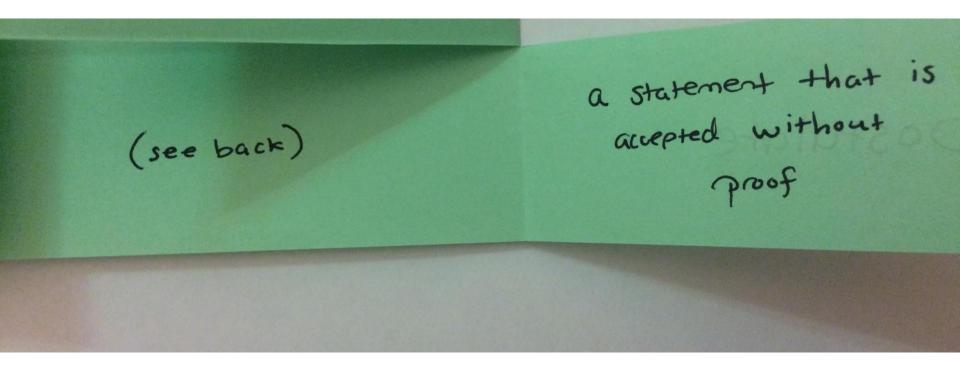
We can use <u>protractors</u> to measure angles.



Let's play with protractors!

Construct a 50 degree angle.
Construct a 35 degree angle that faces up like a v.
Construct a 120 degree angle.

Postulate



Homework

Worksheet