Coplanar

$T, U$, and $V$ are coplanar
points that lie on the same plane
midpoint

## BACK OF FOLDABLE

Congruent segments are segments that have the same length. In the diagram, $P Q=R S$. Tick marks are used in a figure to show segments of equal length.


Midpoint
Coplanar

point that divides a segment into two segments of equal kngth

Segment bisector

Segment Bisector
prelaporit


Q line $l$ bisects $\overline{P Q}$

A line, ray, or other figure that passes through the midpoint of a segment

## WHAT IS AN ANGLE?

## Naming Angles



Angle
Segment bisector


A figure formed by two rays with the same endpoint
The common endpoint is culled the
vertex of the angle.
The rays are the sides of the angle
angle bisector

Types of Angles


## Give Four Ways to Name this Angle



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

$$
\begin{aligned}
& \angle R T Q, \angle S T R, \\
& \angle 1, \angle 2
\end{aligned}
$$



## On back of foldable!

Congruent angles are angles that have the same measure. In the diagram, $\mathrm{m} \angle A B C=\mathrm{m} \angle D E F$. Arc marks are used to show that the two angles have equal measures.


## A Distinction!

$\angle A B C$ refers to the angle $\mathrm{m} \angle A B C$ refers to the measurement of the angle

Angle Bisector
angle

A ray that divides an angle into two congruent angles.

Dostulate

## Measuring Angles

- The measure of an angle is usually given in degrees. Since there are $360^{\circ}$ in a circle, one degree is $1 / 360$ of a circle.
- We can use protractors 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
a statement that is (see back) accepted without proof

## Homework

- Worksheet

