1.1 Points, Lines and Shapes

Objective: Students will be able define and name points, lines, and shapes

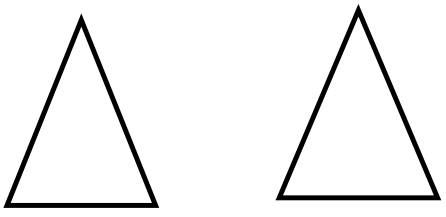
Vocabulary	Definition	Example	Name It
Point	A point is a specific location in space.		
Line	A straight set of points that is one dimensional		
Angle	A shape, formed by two lines meeting at a common point		
Shape	A two dimensional object		

Important Symbols in Geometry

Symbol	Meaning	Example
$\parallel$	**Parallel** Two lines that never _____	
$\perp$	**Perpendicular** At a _____ angle	
$\cong$	**Congruent** Exactly the same _____ and _____	

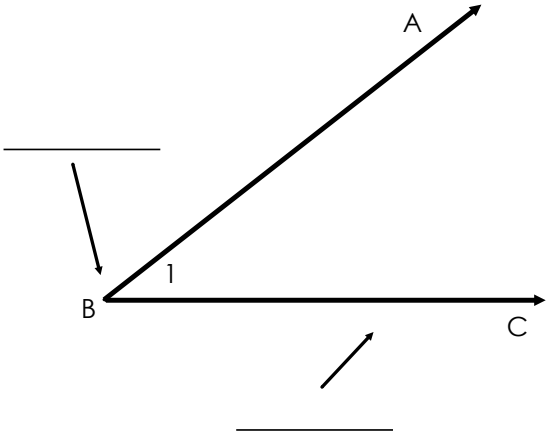
Draw each of the following statements.

In $\triangle ABC$ and $\triangle EFG$ we know the that $\overline{AB} \cong \overline{EF}$, $\overline{BC} \cong \overline{FG}$ and $\overline{AC} \cong \overline{EG}$.



$\overline{MN}$ intersects with $\overline{OP}$ at point E and $\overline{MN} \perp \overline{OP}$

Naming Angles



You can name an angle in 3 ways

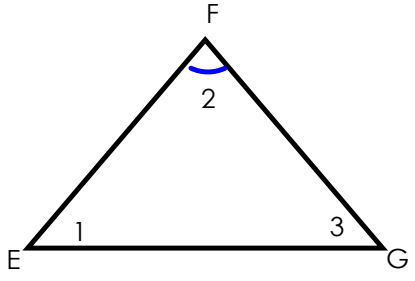
1. By it's vertex: _____

2. By it's number:_____

3. By it's sides and vertex:_____

THE VERTEX MUST ALWAYS BE IN THE MIDDLE!!!!

Name the marked angle in three ways.

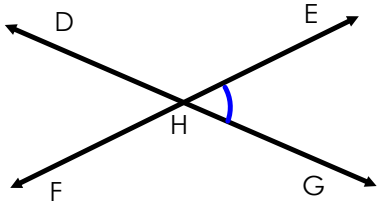


1._____

2._____

3._____

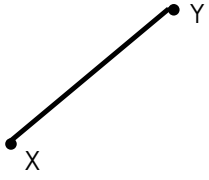
Name the marked angle. Why should we NOT just use the vertex to name it?

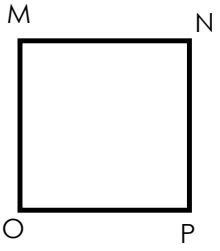


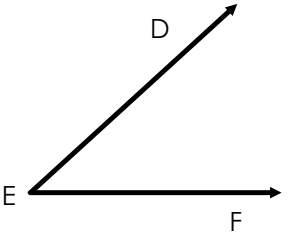
1._____

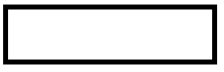
Independent Practice

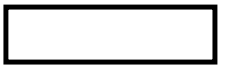
Name each of the following geometric figures

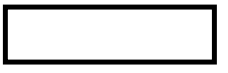


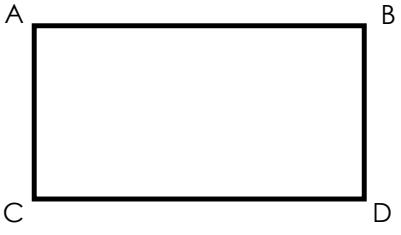






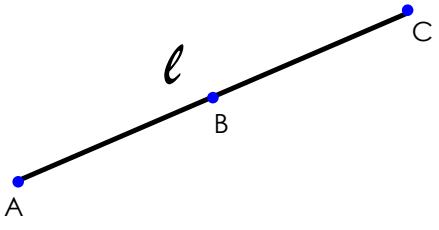






Joe says that the figure below is named rectangle ABCD. Is he correct or incorrect? Explain your answer.

Name the line below in three different ways.



1._____

2._____

3._____

Draw each of the following statements.

$\overline{MN} \parallel \overline{OP}$

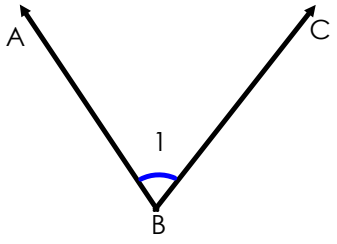
$\overline{JK} \cong \overline{FT}$

In rectangle ABCD we know $\overline{AB} \cong \overline{CD}$ and $\overline{BC} \cong \overline{AD}$.

$\triangle ABC$ is a right triangle and $\overline{AB} \perp \overline{BC}$

(if you don't know what a right triangle is, google it)

Name the marked angle in three different ways

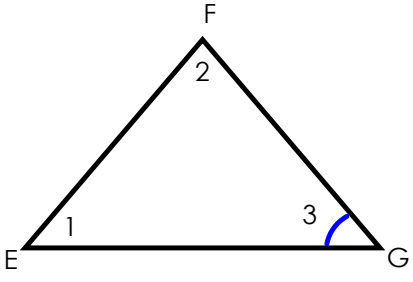


1._____

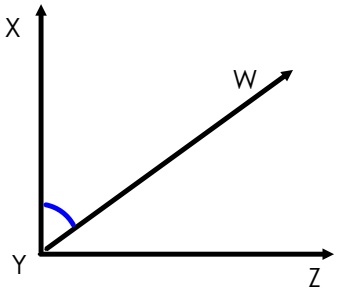
2._____

3._____

Chris says ∠3 can also be named ∠EGF. Is he correct or incorrect. Explain you answer.



Name the marked angle. Why should we NOT just use the vertex to name it?



In a few sentences, summarize what you learned in this lesson.