

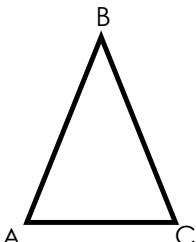
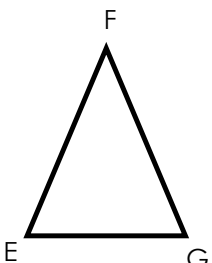
# 1.1 Points, Lines and Shapes

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
$\parallel$	<p><b>Parallel</b></p> <p>Two lines that never _____</p>	
$\perp$	<p><b>Perpendicular</b></p> <p>Two lines that form a _____ angle</p>	
$\cong$	<p><b>Congruent</b></p> <p>Exactly the same _____ and _____</p>	

<p>Mark the triangles below with the following information</p> <p>In <math>\triangle ABC</math> and <math>\triangle EFG</math> we know  <math>\overline{AB} \cong \overline{EF}</math>, <math>\overline{BC} \cong \overline{FG}</math> and <math>\overline{AC} \cong \overline{EG}</math>.</p> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>	<p><math>\overline{MN}</math> intersects with <math>\overline{OP}</math> at point E and <math>\overline{MN} \perp \overline{OP}</math></p>
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## Naming Angles

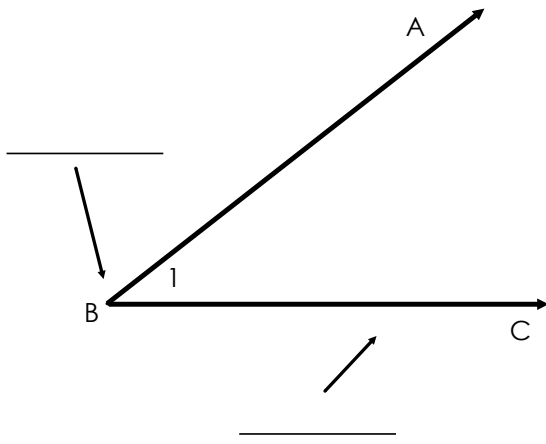
**You can name an angle in 3 ways**

1. By it's vertex: \_\_\_\_\_

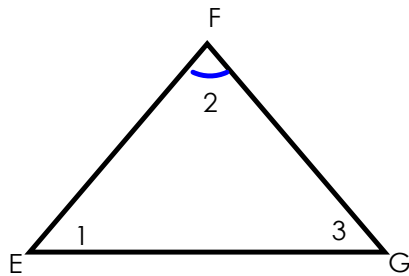
2. By it's number: \_\_\_\_\_

3. By it's sides and vertex: \_\_\_\_\_

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



Name the marked angle in three ways.

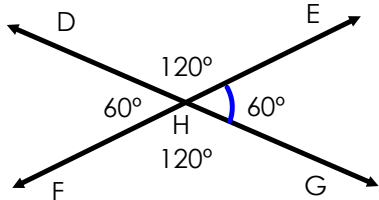


1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

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



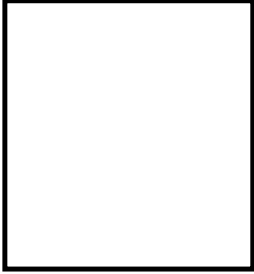
How many degrees are in  $\angle DHE$ ?

$\angle DHE = \underline{\hspace{2cm}}$

## Independent Practice

Draw the following geometric objects.

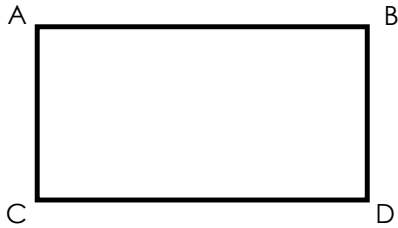
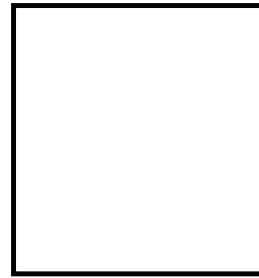
$\sphericalangle$ CAT



$\overline{FX}$

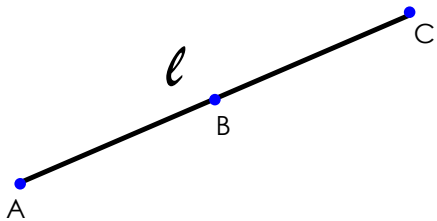


$\triangle$  FAT



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.

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

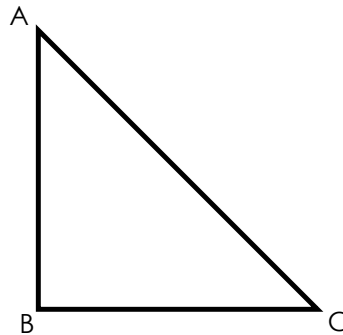
$$\overline{JK} \cong \overline{FT}$$

Draw rectangle ABCD and mark the sides with the following information.

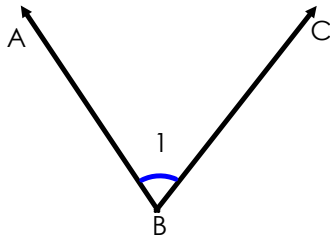
$$\overline{AB} \cong \overline{CD} \text{ and } \overline{BC} \cong \overline{AD}.$$

Mark the triangle below with the following information:

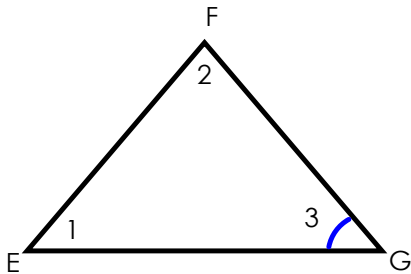
In  $\triangle ABC$ ,  $\overline{AB} \perp \overline{BC}$  and  $\overline{AB} \cong \overline{BC}$



Name the marked angle in three different ways

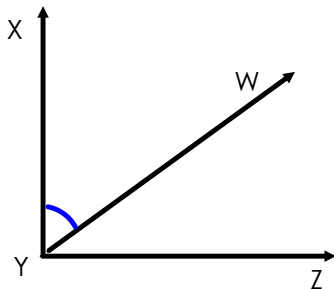


Name  $\angle 3$  in three different ways

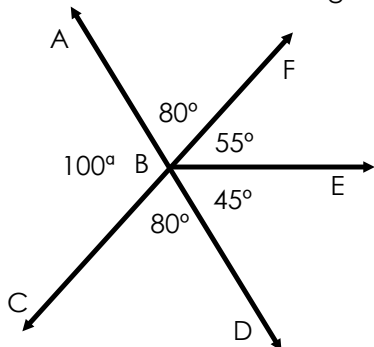


1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Chris states the marked angle is  $\angle Y$ . Why is he incorrect? Answer IN A FULL SENTENCE



State the degree measure for each of the following angles:



$$\angle EBD = \underline{\hspace{2cm}}$$

$$\angle ABF = \underline{\hspace{2cm}}$$

$$\angle ABC = \underline{\hspace{2cm}}$$

$$\angle FBE = \underline{\hspace{2cm}}$$