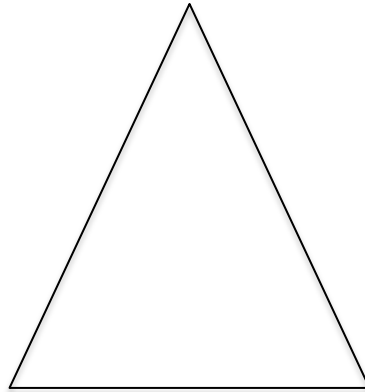


Let's recall what we learned yesterday about Isosceles Triangles.



Now! We must consider what the relationships between angles and sides of a triangle are when the triangle is **not** an isosceles triangle.

<p>Part I: Identify the opposite side of the indicated angle.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Angle</th> <th style="width: 50%;">Opposite Side</th> </tr> </thead> <tbody> <tr> <td>$\angle XYZ$</td> <td></td> </tr> <tr> <td>$\angle YZX$</td> <td></td> </tr> <tr> <td>$\angle ZXY$</td> <td></td> </tr> </tbody> </table>	Angle	Opposite Side	$\angle XYZ$		$\angle YZX$		$\angle ZXY$		
Angle	Opposite Side								
$\angle XYZ$									
$\angle YZX$									
$\angle ZXY$									
<p>Part II: Identify the opposite angle of the indicated side.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Side</th> <th style="width: 50%;">Opposite Angle</th> </tr> </thead> <tbody> <tr> <td>\overline{AB}</td> <td></td> </tr> <tr> <td>\overline{BC}</td> <td></td> </tr> <tr> <td>\overline{AC}</td> <td></td> </tr> </tbody> </table>	Side	Opposite Angle	\overline{AB}		\overline{BC}		\overline{AC}		
Side	Opposite Angle								
\overline{AB}									
\overline{BC}									
\overline{AC}									

We will now do an activity together in which we check out a program using the following website:

www.mathwarehouse.com/triangle

You can certainly play with this website on your own time if you would like. It is pretty fancy!

Triangle #1

Measure of Angle	Was <u>angle</u> the largest smallest or middle?	Length of Opposite Side	Was <u>side</u> the largest smallest or middle?
$m \angle CBA$:	Largest/Smallest/Middle	\overline{AC}	Largest/Smallest/Middle
$m \angle BAC$:	Largest/Smallest/Middle	\overline{BC}	Largest/Smallest/Middle
$m \angle BCA$: _____	Largest/Smallest/Middle	\overline{AB} :	Largest/Smallest/Middle

Triangle #2

Measure of Angle	Was <u>angle</u> the largest smallest or middle?	Length of Opposite Side	Was <u>side</u> the largest smallest or middle?
$m \angle CBA$:	Largest/Smallest/Middle	\overline{AC}	Largest/Smallest/Middle
$m \angle BAC$:	Largest/Smallest/Middle	\overline{BC}	Largest/Smallest/Middle
$m \angle BCA$: _____	Largest/Smallest/Middle	\overline{AB} :	Largest/Smallest/Middle

Triangle #3

Measure of Angle	Was <u>angle</u> the largest smallest or middle?	Length of Opposite Side	Was <u>side</u> the largest smallest or middle?
$m \angle CBA$:	Largest/Smallest/Middle	\overline{AC}	Largest/Smallest/Middle
$m \angle BAC$:	Largest/Smallest/Middle	\overline{BC}	Largest/Smallest/Middle
$m \angle BCA$: _____	Largest/Smallest/Middle	\overline{AB} :	Largest/Smallest/Middle

What are some conclusions that we can come to?