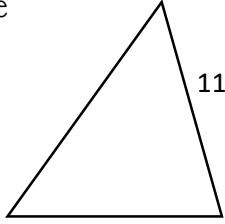
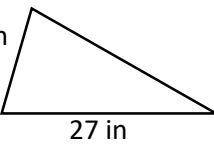


Triangle Inequality Theorem

In order to form a triangle, the _____ of the lengths of two _____

MUST be _____ than the length of the third _____.

<p>Could the following lengths be used to form a triangle?</p> <p>2 9 10</p>	<p>Could the following lengths be used to form a triangle?</p> <p>13 5 8</p>	<p>Your turn: Write three side lengths that would form a triangle.</p>	<p>Helpful Hint:</p> <p>First, add the two smaller side lengths. If their sum is GREATER than the longest side, then you know it <i>can</i> form a triangle.</p>
<p>What if you knew the length of two sides, could you determine a possible length for the third side?</p> <ul style="list-style-type: none"> Find the sum of the two given side lengths. The third side would have to be _____ than the sum. 	<p>Determine which is a possible length for the missing side</p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> <p>17</p> <p>20</p> <p>23</p> </div> </div>		
<p>On Your Own</p> <p>Could the following lengths be used to form a triangle?</p> <p>32 59 28</p>	<p>One More . . . Determine which is a possible length for the missing side</p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> <p>43</p> <p>44</p> <p>38</p> </div> </div>		