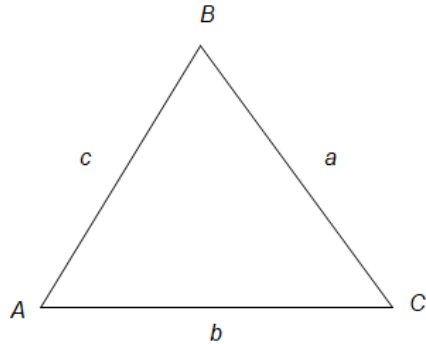


## Notes Law of Cosines (Sides)

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

Learning Target: \_\_\_\_\_  
\_\_\_\_\_

Law of Cosines: For any triangle




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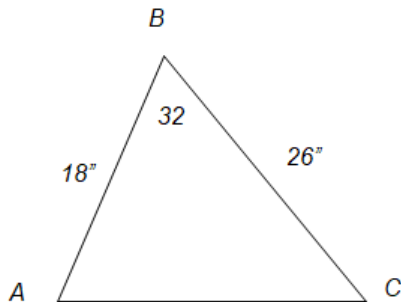


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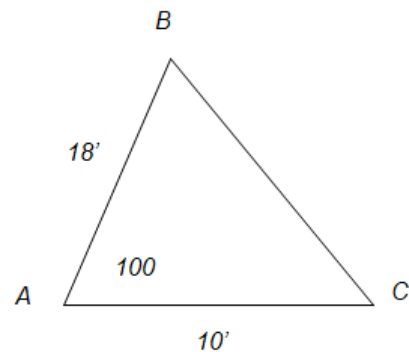
When using cosines, you will always have a choice of which angle to find first....  
\_\_\_\_\_

If you don't, your calculator will always do you wrong on an obtuse triangle.

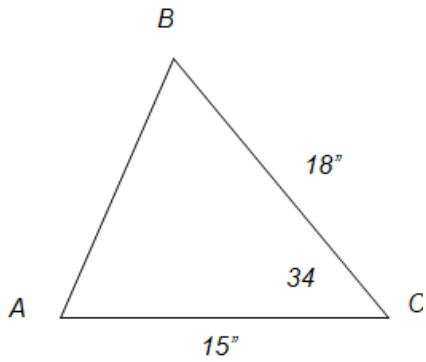
Example 1: Find the missing side



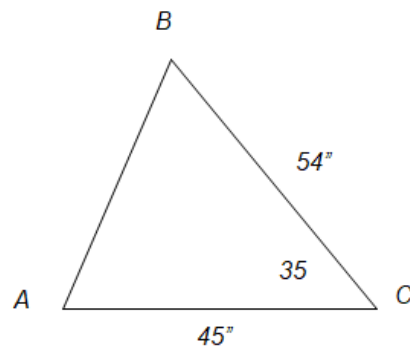
Example 2: Find the missing side



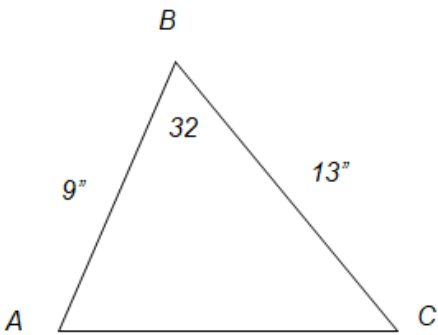
Example 3: Find the missing side



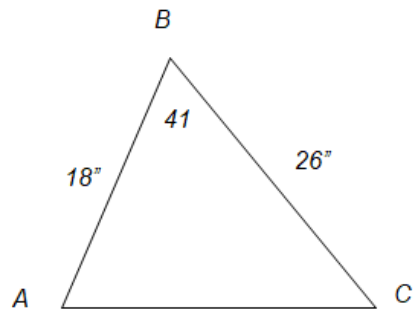
Practice 1: Find the missing side



Practice 2: Find the missing side



Practice 3: Find the missing side



Show me you know it!

1. How do you decide which of the three parts to use? \_\_\_\_\_  
\_\_\_\_\_
2. Why can't we use the ratio or the law of sines on these problems? \_\_\_\_\_  
\_\_\_\_\_