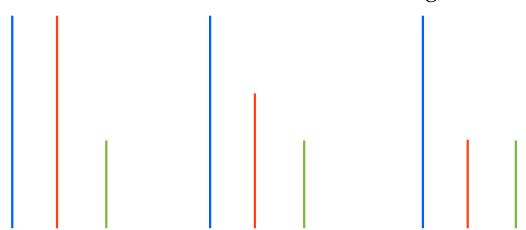
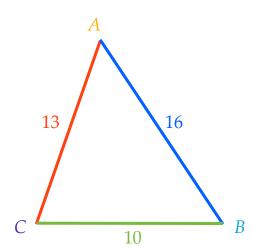
## What does it take to make a triangle?



The sum of the lengths of any two sides must be greater than the length of the third side.



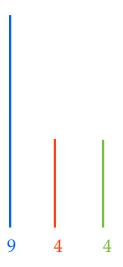
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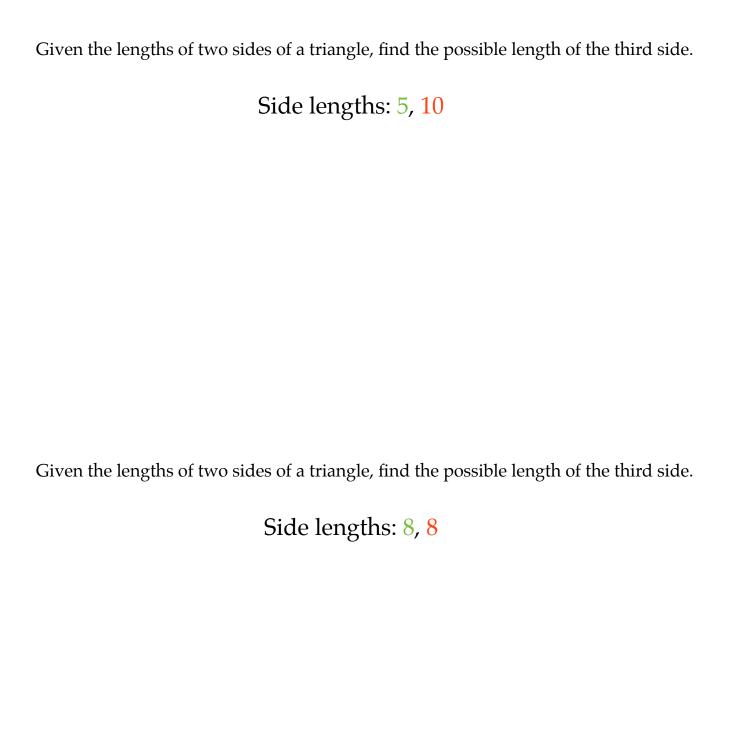


The sum of the lengths of any two sides must be greater than the length of the third side.



Can a triangle have sides with the following lengths?

Side lengths: 4, 8, 11 Side lengths: 3, 9, 14



The sum of the lengths of any two sides must be greater than the length of the third side.

The two shortest sides must add to be greater than the longest side.

