



Special Triangle Rules

About These Problems

Refer to the box below for the two main special rules regarding triangles.

Triangle Rules

1. One side of a triangle must be less than the sum of the other two sides.
2. The ratios of the sides of a triangle are proportional to the

Question. If we have a triangle and we have two sides of 6 and 8 which of the following could possibly be the third side?

1. 1
2. 2
3. 3
4. 14
5. 15

Answer. 3: Remember that the third side cannot be greater than or equal to the sum of the other two sides. That narrows it down to options 1,2, and 3. But if we choose option 1 or 2 then 8 is equal to or larger than the other two sides. 3 is the only plausible choice.