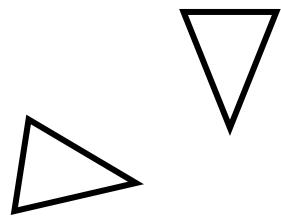
Similar Polygons: Ratio of Perimeters & Areas - Step-by-Step Lesson

Two  $\Delta$  are similar.

The sides of the first  $\Delta$  are 3, 4, and 5.

The largest side of the second  $\Delta$  is 30.

Find the perimeter of the second  $\Delta$ .



## Explanation:

Perimeter of similar triangles <u>Perimeter of  $\Delta$  first</u> = <u>largest side  $\Delta$  first</u> Perimeter of  $\Delta$  second = <u>largest side  $\Delta$  second</u> Perimeter of  $\Delta$  first = 3+4+5=12 12/ Perimeter of  $\Delta$  second = 5/ 30

12/ Perimeter of  $\Delta$  second = 1/ 6

Perimeter of  $\Delta$  second = 12 x 6 (Cross-Products property)

Perimeter of  $\Delta$  second = 72

Answer is: 72

