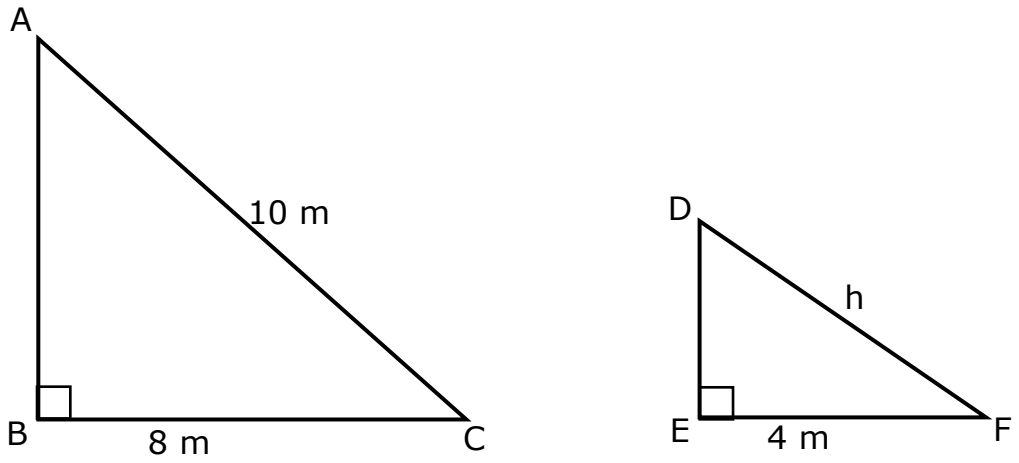
Name _____ Date _____

Triangles (Similarity and Congruence)- Step-by-Step Lesson

In these diagram below, ΔABC ~ ΔDEF. Find h.



Explanation:

ΔABC ~ΔDEF means that ΔABC is similar to ΔDEF. And the sides of similar triangles are proportional.

So, $\frac{BC}{EF} = \frac{AC}{DF}$

$$\frac{8}{4} = \frac{10}{h}$$

$$h = \frac{4 \times 10}{8}$$

$$h = \frac{40}{8}$$

h = 5

So the missing length is 5 meters long.