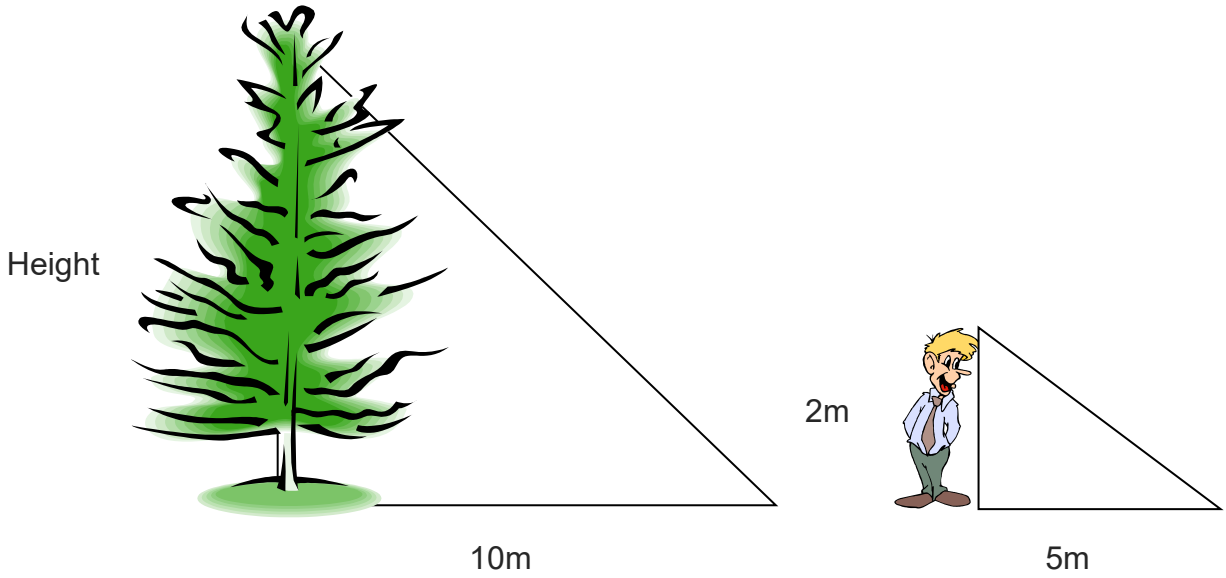
SIMILARITY AND CONGRUENCE

SIMILAR TRIANGLES

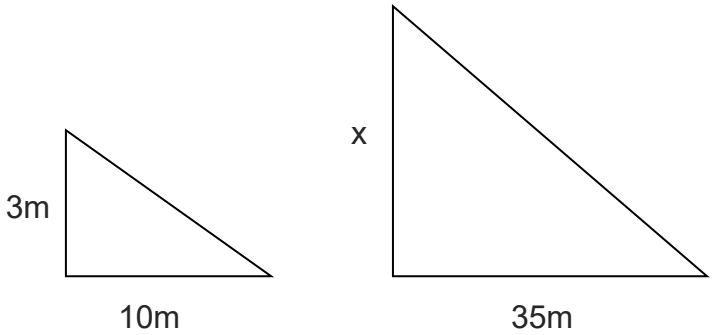
The heights of trees and buildings can be calculated by measuring shadows and then using similar triangles to calculate heights.

Q1. The height of the man is 2 metres. The length of the man's shadow is 4 metres. The length of the tree's shadow is 10 metres. Use the idea of similar triangles to calculate the height of this tree.

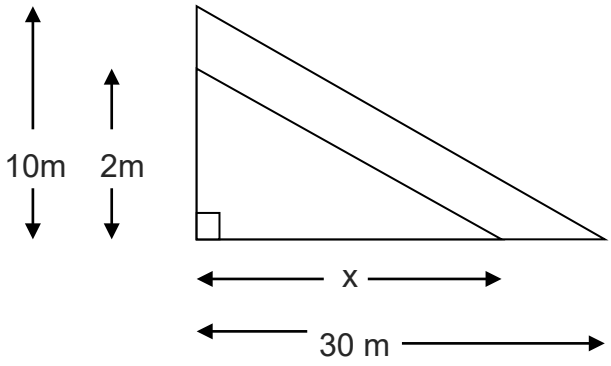


Q2. In these similar triangles, calculate the length marked x:

(a)



(b)



ANSWERS

Q1. 2 ÷ 5 x 10 = 4 m

Q1. (a) 10.5 m
(b) 6 m