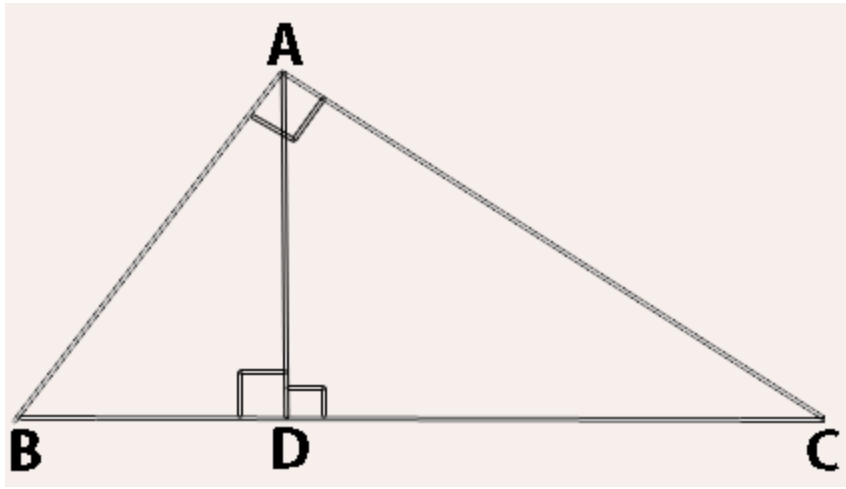
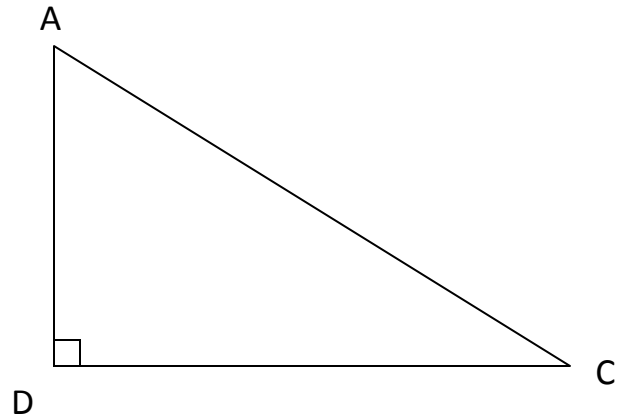
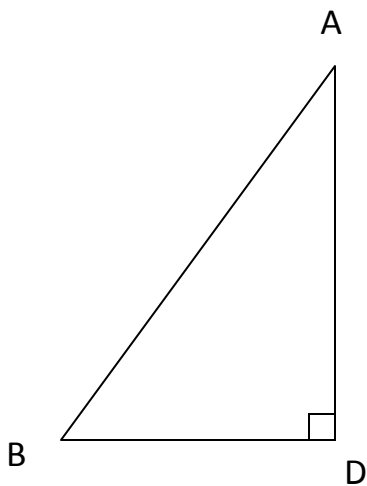
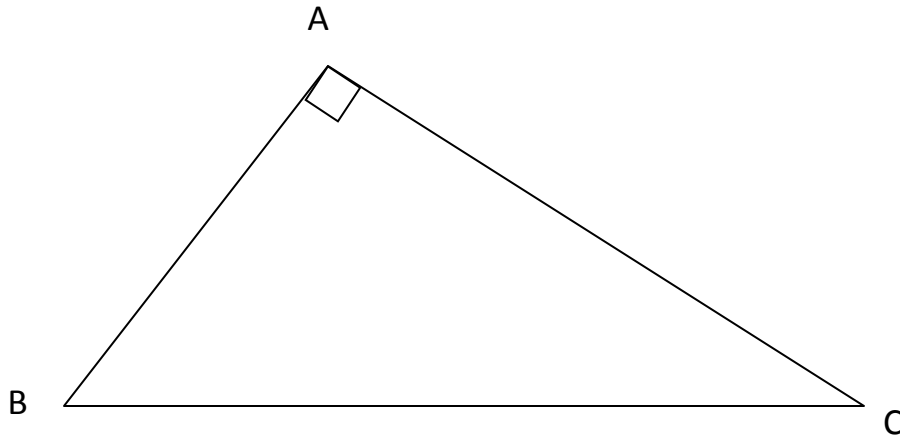


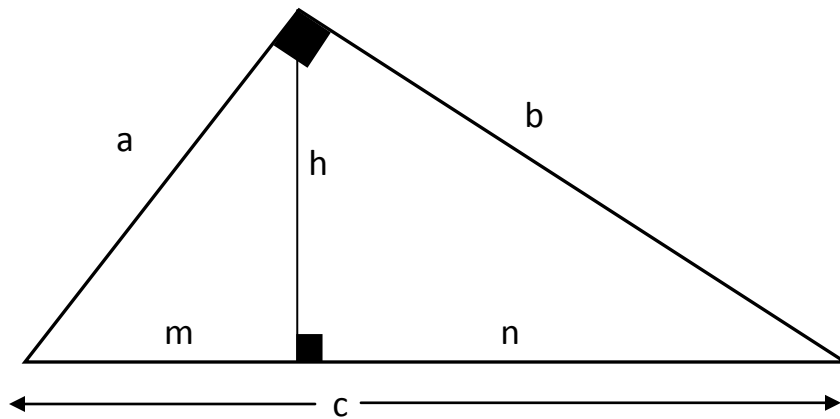
Metric Relations in a Right Triangle



There are 3 similar triangles in the illustration above. Can you name them and draw them?



Because there are 3 similar triangles, we can find just about any missing measure in a figure like the one below.



Instead of using proportions to solve, we will use four simple formulas:

$$a^2 = m \cdot c$$

$$b^2 = n \cdot c$$

$$h^2 = m \cdot n$$

$$a \cdot b = h \cdot c$$

AND because it's a right triangle, we can also use Pythagoras!

$$a^2 + b^2 = c^2$$

Ex. Find the missing measures

