

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

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

$$h^2 = x \cdot y$$

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

Don't forget **Pythagoras!**

$ab = hc$
 $a^2 = yc$

$\sqrt{12^2 - 7.2^2} = 9.6$

$h^2 = x \cdot y$
 $h^2 = 7.2 \cdot 12.8$
 $\sqrt{h^2} = \sqrt{92.16}$
 $h = 9.6$

$x = 7.2$

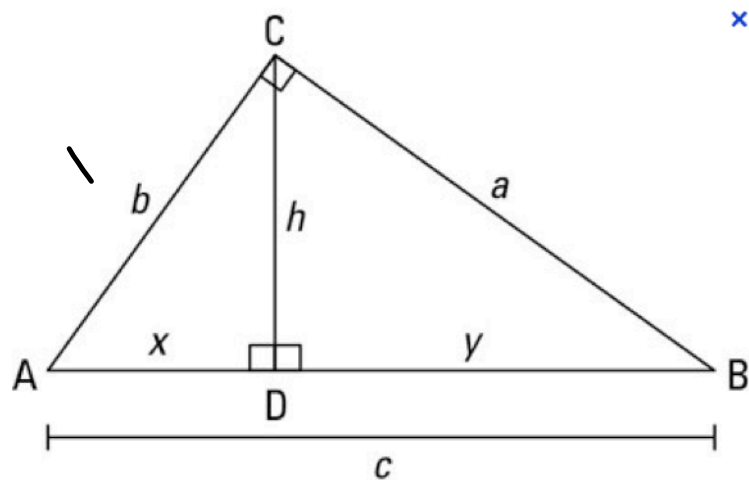
1. If $b=12$ and $c=20$, what are the measures of a , x , y and h ?

$h^2 = x \cdot y$
 $h^2 = 4.5 \cdot 8$
 $h^2 = 36$
 $\sqrt{h^2} = \sqrt{36}$
 $h = 6$

If $x=4.5$ and $y=8$, what are the measures of a , b , c and h ?

$a^2 + b^2 = c^2$
 $6^2 + 8^2 = c^2$
 $36 + 64 = c^2$
 $\sqrt{100} = \sqrt{c^2}$
 $10 = c$

$a^2 + b^2 = c^2$
 $4.5^2 + 6^2 = c^2$
 $20.25 + 36 = c^2$
 $\sqrt{56.25} = \sqrt{c^2}$
 $7.5 = b$



$$h = 3$$

$$x = 2$$

$$h = \sqrt{3^2 + 2^2}$$

$$= \sqrt{9 + 4} \\ = \sqrt{13} = 3.6$$