Pythagorean Theorem - Day 2

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

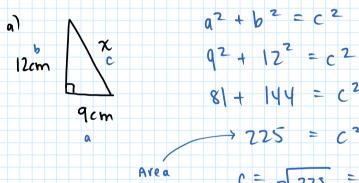
x only for right angles

$$c^{2} - b^{2} = a^{2}$$
 $c^{2} - a^{2} = b^{2}$

Method?

- 1 Label (a,b,c)
 - 2 write formula
 - 3 substitute numbers
 - (4) Calculate answer * SHOW YOUR WORK * Include units

Find side X Ex.



$$a^{2} + b^{2} = c^{2}$$
 $q^{2} + 12^{2} = c^{2}$
 $8 + 144 = c^{2}$

 $\rightarrow 225 = c^2$ _side length C= - 223 = (15 cm)

$$(c^{2} - b)^{2} = a^{2}$$

 $6.5^{2} - 6^{2} = a^{2}$
 $42.25 - 36 = a^{2}$

area $a = \sqrt{6.25} = a^2$

side length

Ex. The perimeter of an equilateral triangle is 27m. Find the height

