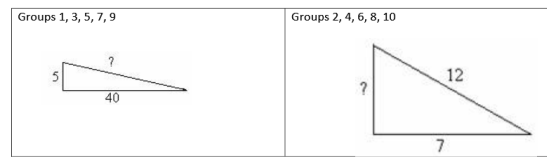


HAND IN THE PROBLEM OF THE WEEK, THEN

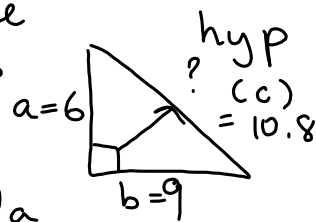
SOLVE FOR THE UNKNOWN SIDE OF THE TRIANGLE:



Applying Pythagoreus to
find a side length:

① Label your triangle

② Know: side a, side b
Want: hyp?



③ Write out formula
and plug in values

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

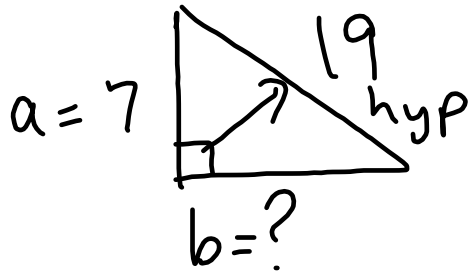
$$6^2 + 9^2 = c^2$$

$$6 \times 6 + 9 \times 9 = c^2$$

$$36 + 81 = c^2$$

$$\sqrt{117} = \sqrt{c^2}$$

$$10.8 = c$$



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

$$\text{hyp}^2 - a^2 = b^2$$

Know hyp = 19

a = 7

Want b = ?

$$19^2 - 7^2 = b^2$$

$$19 \times 19 - 7 \times 7 = b^2$$

$$\sqrt{361 - 49} = b$$

$$\sqrt{312} = \sqrt{b^2}$$

$$17.6 = b$$

Copy the triangles into your notes and solve for the unknown

a) b) c)

d) e) f)

Copy the triangles into your notes and solve for the unknown

a) c) b)

d) e) f)