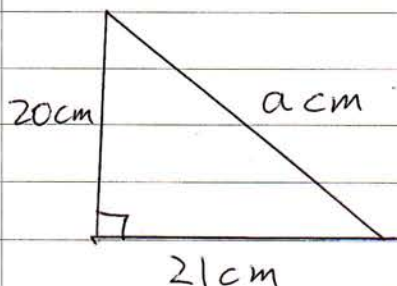


Ex 8A

1a)



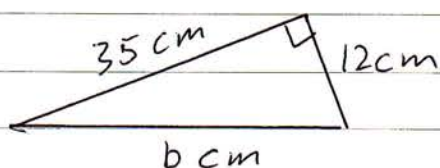
$$a^2 = 20^2 + 21^2$$

$$a^2 = 841$$

$$a = \sqrt{841}$$

$$a = 29$$

1b)



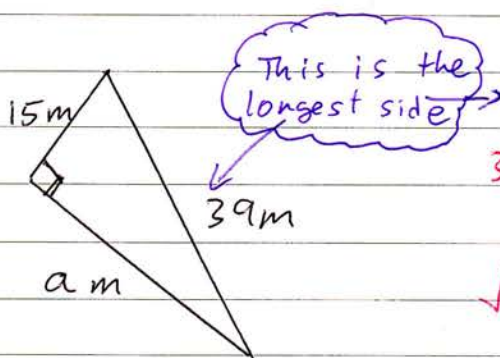
$$b^2 = 35^2 + 12^2$$

$$b^2 = 1369$$

$$b = \sqrt{1369}$$

$$b = 37$$

2a)



$$39^2 = 15^2 + a^2$$

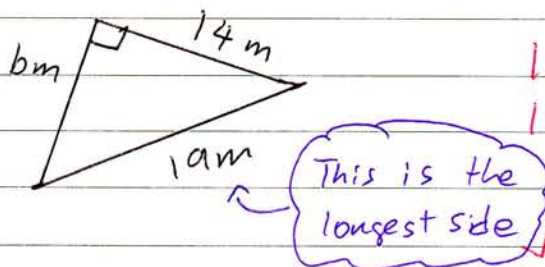
$$39^2 - 15^2 = a^2$$

$$1296 = a^2$$

$$\sqrt{1296} = a$$

$$a = 36$$

2b)



$$19^2 = 14^2 + b^2$$

$$19^2 - 14^2 = b^2$$

$$165 = b^2$$

$$\sqrt{165} = b$$

$$b = 12.845$$

$$b \approx 12.8$$

The pythagoras Theorem formula

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

c is the longest side
the longest side is across the right angle



Some of you made a or b the longest side.