

Topic Test 1 (20 minutes)

Congruence and similarity - Foundation

1 A photograph measures 10 cm by 18 cm

1 (a) The photograph is enlarged by a scale factor of 1.5

Work out the new dimensions.

[2 marks]

Answer _____ cm by _____ cm

1 (b) Another enlargement of the photograph is made.

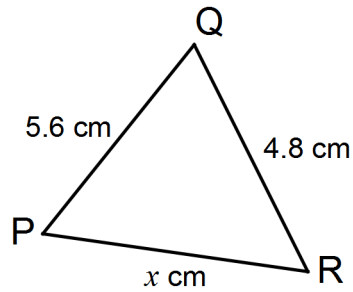
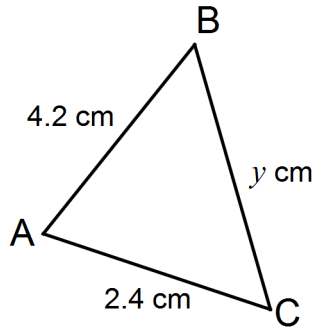
The shorter side has length 7.5 cm

Work out the longer side.

[2 marks]

Answer _____ cm

2 Triangle ABC is similar to triangle PQR .



Not drawn accurately

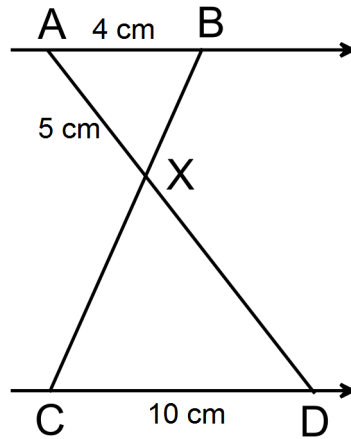
Work out the values of x and y .

[3 marks]

$x =$ _____ cm

$y =$ _____ cm

- 3 AB and CD are parallel lines.
AD and BC meet at X.



Not drawn
accurately

- 3 (a) Show that triangles ABX and DCX are similar.

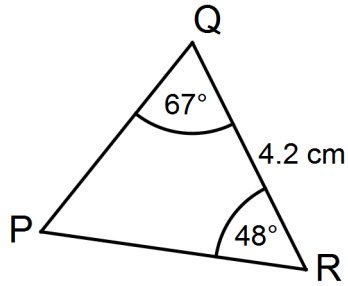
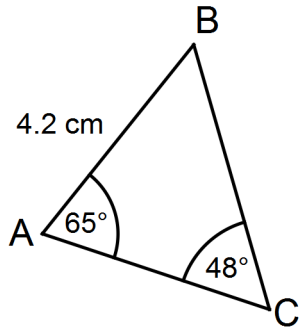
[3 marks]

- 3 (b) Work out the length of XD.

[2 marks]

Answer _____ cm

- 4 Are triangles ABC and PQR similar, congruent or neither?
Justify your answer.



Not drawn accurately

[3 marks]

Answer _____