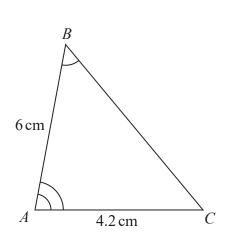
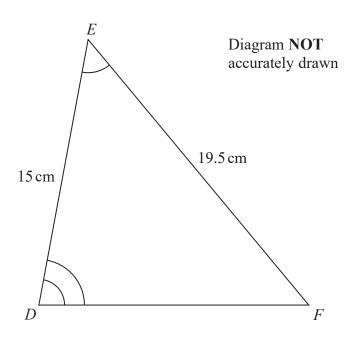
Triangle ABC and triangle DEF are similar. D20 cm 22 cm 5 cm CE4cm (a) Work out the length of EF. cm **(2)** (b) Work out the length of AB. cm (Total for Question 1 is 4 marks)

2	ABC and DEF are similar triangles. $\begin{array}{c} A \\ 12\mathrm{cm} \\ B \end{array}$	Diagram NOT accurately drawn
	(a) Work out the length of <i>DE</i> .	
		cm
	The area of triangle DEF is $525 \mathrm{cm}^2$	
	(b) Find the area of triangle <i>DEF</i> in m ²	m ²
	(Total for Question 2 is	4 marks)

3 ABC and DEF are similar triangles.





(a) Work out the length of DF.

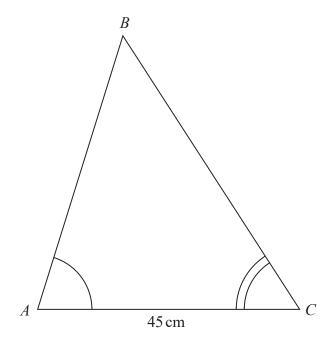
.....cm

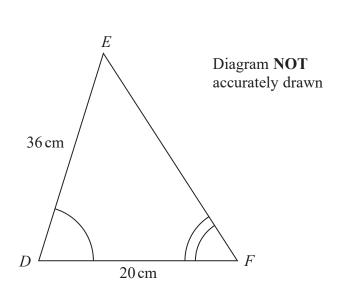
(b) Work out the length of BC.

.....cm

(Total for Question 3 is 4 marks)

4 ABC and DEF are similar triangles.





(a) Work out the length of AB.

.....cm

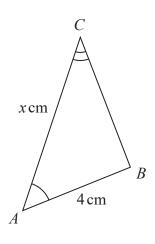
Given that $BC = 54 \,\mathrm{cm}$,

(b) work out the length of EF.

(2)

(Total for Question 4 is 4 marks)

5



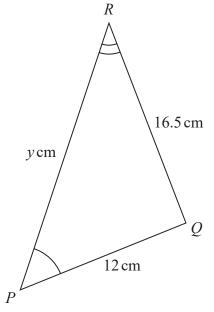


Diagram **NOT** accurately drawn

Triangle ABC is similar to triangle PQR

$$AB = 4 \,\mathrm{cm}$$

$$PQ = 12 \,\mathrm{cm}$$

$$RQ = 16.5 \, \text{cm}$$

$$AC = x \,\mathrm{cm}$$

$$PR = y \text{ cm}$$

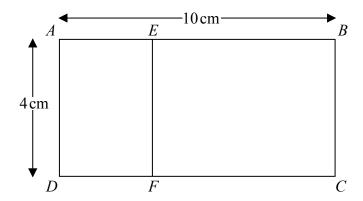
(a) Calculate the length of BC

 	cm
(2)	

(b) Write down an expression for y in terms of x

(Total for Question 5 is 3 marks)

6 Rectangle *ABCD* is mathematically similar to rectangle *DAEF*.



$$AB = 10$$
 cm.

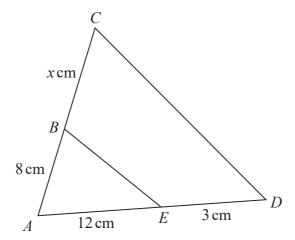
$$AD = 4$$
 cm.

Work out the area of rectangle DAEF.

 . cm

(Total for Question 6 is 3 marks)

7 The two triangles in the diagram are similar.



There are two possible values of x.

Work out each of these values.

State any assumptions you make in your working.