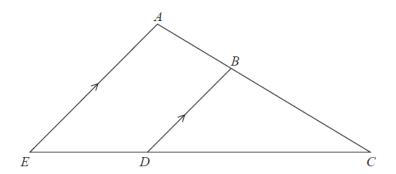
1



ABC and EDC are straight lines. EA is parallel to DB.

EC = 8.1 cm.

DC = 5.4 cm.

DB = 2.6 cm.

(a) Work out the length of AE.

		cm
	(2)	

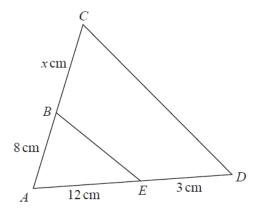
AC = 6.15 cm.

(b) Work out the length of AB.

(2) cm

(Total for Question is 4 marks)

2 The two triangles in the diagram are similar.

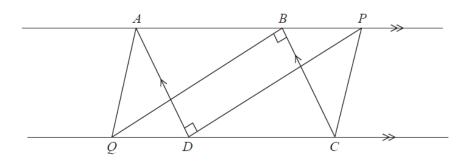


There are two possible values of x.

Work out each of these values. State any assumptions you make in your working.

(Total for Question is 5 marks)

3



ABCD is a parallelogram. ABP and QDC are straight lines. Angle ADP = angle CBQ = 90°

(a) Prove that triangle ADP is congruent to triangle CBQ.

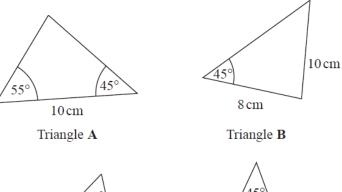
(3)

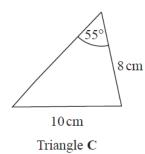
(b) Explain why AQ is parallel to PC.

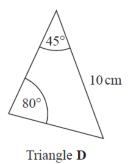
(2)

(Total for Question is 5 marks)

4 The diagram shows four triangles.





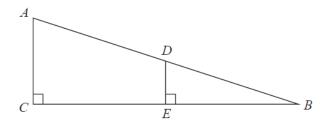


Two of these triangles are congruent.

Write down the letters of these two triangles.

 and		
(Total for Question	is 1 mark)	

5 The diagram shows two right-angled triangles *ACB* and *DEB*.



AD = 9 cm

DE = 2 cm

DB = 6 cm

Calculate the length of CB.

Give your answer correct to 2 decimal places.

..... cm

(Total for Question is 4 marks)