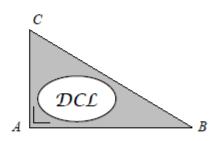
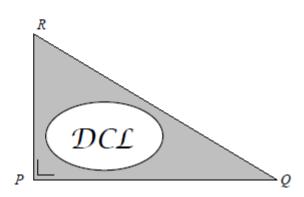
Question 7 (35 marks)

The diagram below shows the right-angled triangle ABC, which is used in the logo for a company called $Deane\ Construction\ Limited\ (DCL)$. The triangle PQR is the image of ABC under an enlargement.





(a)	(i)	Construct the centre of enlargement and label it O .
	(ii)	Measure, in centimetres, $ OB $ and $ OQ $.
		OB =
	(iii)	Use your measurements to find the scale factor of the enlargement, correct to one decimal place.
(b)		area of the triangle ABC is 7.5 cm ² . the scale factor to find the area of the image triangle PQR under the enlargement.
(c)	(i)	Given that $ AB = 5$ cm, use the scale factor to find $ PQ $.
	(ii)	Given that $ QR = 8.7$ cm, use the scale factor to find $ BC $.
	(iii)	Hence, show that $ \angle ABC = \angle PQR $.