#### **AREA OF TRIANGLE**

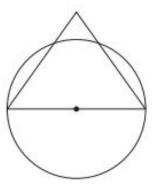
#### Pearson Edexcel - Thursday 8 November 2018 - Paper 2 (Calculator) Higher Tier

1.

13 The diagram shows a circle and an equilateral triangle.

One side of the equilateral triangle is a diameter of the circle. The circle has a circumference of 44 cm.

Work out the area of the triangle. Give your answer correct to 3 significant figures.

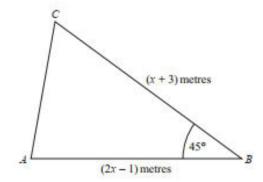


	cm <sup>2</sup>
(Total for Question 13 is 3 marks)	

Pearson Edexcel - Thursday 24 May 2018 - Paper 1 (Non-Calculator) Higher Tier

3	The perimeter of a right-angled triangle is 72 cm.  The lengths of its sides are in the ratio 3: 4:5
	Work out the area of the triangle.
	cm <sup>2</sup>
	(Total for Question 8 is 4 marks)
	(Total for Question 6 is 4 marks)

Pearson Edexcel - Tuesday 13 June 2017 - Paper 3 (Calculator) Higher Tier 3.



The area of triangle ABC is  $6\sqrt{2}$  m<sup>2</sup>.

Calculate the value of x.

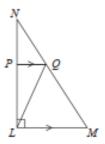
Give your answer correct to 3 significant figures.

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(Total for Question 15 is 5 marks)

Pearson Edexcel - Specimen Papers Set 2 - Paper 1 (Non-Calculator) Higher Tier

#### 18 LMN is a right-angled triangle.



Angle  $NLM = 90^{\circ}$ PQ is parallel to LM.

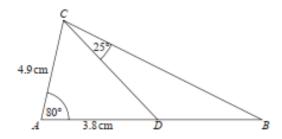
The area of triangle PNQ is 8 cm<sup>2</sup> The area of triangle LPQ is 16 cm<sup>2</sup>

Work out the area of triangle LQM.

		cm²
(Total for Question 18 is 4)	marks)	

Pearson Edexcel - Specimen Papers Set 2 - Paper 1 (Non-Calculator) Higher Tier 5.

22	The line $l$ is a tangent to the circle $x^2 + y^2 = 40$ at the point $A$ . $A$ is the point $(2, 6)$ .
	The line $I$ crosses the $x$ -axis at the point $P$ .
	Work out the area of triangle OAP.
	(Total for Question 22 is 5 marks)
	puson Edovad - Chariman Danous Sat 2 - Danou 2 (Calculator) Higher Tier



ABC is a triangle. D is a point on AB.

Work out the area of triangle BCD.

Give your answer correct to 3 significant figures.

	cm

(Total for Question 21 is 5 marks)

Pearson Edexcel - Sample Paper 2 - (Calculator) Higher Tier

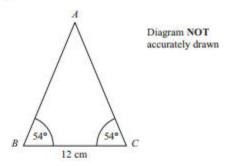
21	In triangle $RPQ$ ,
	RP = 8.7  cm PQ = 5.2  cm
	Angle PRQ = 32°
	(a) Assuming that angle POR is an acute angle,
	calculate the area of triangle RPQ.  Give your answer correct to 3 significant figures.
	cm <sup>2</sup>
	(b) If you did not know that angle PQR is an acute angle, what effect would this have on
	your calculation of the area of triangle RPQ?

Pearson Edexcel - Friday 8 November 2013 - Paper 2 (Calculator) Higher Tier

(1)

(Total for Question 21 is 5 marks)

#### 18 ABC is an isosceles triangle.



Work out the area of the triangle. Give your answer correct to 3 significant figures.

\_\_\_\_\_ cm<sup>2</sup>

(Total for Question 18 is 4 marks)

Pearson Edexcel - Tuesday 11 June 2013 - Paper 1 (Non-Calculator) Higher Tier

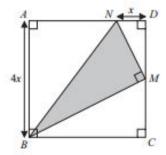


Diagram NOT accurately drawn

ABCD is a square with a side length of 4x M is the midpoint of DC. N is the point on AD where ND = x

BMN is a right-angled triangle.

Find an expression, in terms of x, for the area of triangle BMN. Give your expression in its simplest form.

(Total for Question 20 is 4 marks)

Pearson Edexcel - Friday 14 June 2013 - Paper 2 (Calculator) Higher Tier 10.

#### 24 ABC is a triangle.

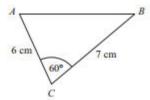


Diagram NOT accurately drawn

(a) Work out the area of triangle ABC. Give your answer correct to 3 significant figures.

\_\_\_\_\_cm<sup>2</sup>

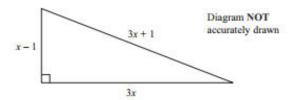
(b) Work out the length of the side AB. Give your answer correct to 3 significant figures.

(3)

(Total for Question 24 is 5 marks)

Pearson Edexcel - Tuesday 6 November 2012 - Paper 1 (Non-Calculator) Higher Tier

16 The diagram shows a triangle.



In the diagram, all the measurements are in metres.

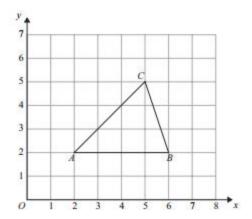
The perimeter of the triangle is 56 m. The area of the triangle is A m<sup>2</sup>.

Work out the value of A.

\_\_\_\_\_

(Total for Question 16 is 4 marks)

Pearson Edexcel - Monday 11 June 2012 - Paper 1 (Non-Calculator) Higher Tier 12.



Triangle ABC is drawn on a centimetre grid.

A is the point (2, 2).

B is the point (6, 2).

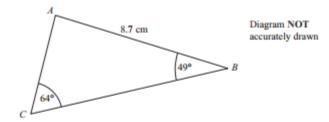
C is the point (5, 5).

Triangle PQR is an enlargement of triangle ABC with scale factor  $\frac{1}{2}$  and centre (0, 0).

Work out the area of triangle PQR.

(Total for Question 18 is 3 marks)

Pearson Edexcel - Wednesday 13 June 2012 - Paper 2 (Calculator) Higher Tier **13**.



ABC is a triangle.

AB = 8.7 cm. Angle ABC = 49°. Angle ACB = 64°.

Calculate the area of triangle ABC. Give your answer correct to 3 significant figures.

.....em

(Total for Question 24 is 5 marks)

Pearson Edexcel - Friday 12 November 2010 - Paper 4 (Calculator) Higher Tier 14.

1.

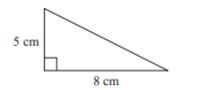


Diagram NOT accurately drawn

Work out the area of this right-angled triangle.

..... cm<sup>2</sup> (Total 2 marks)

Pearson Edexcel - Friday 12 November 2010 - Paper 4 (Calculator) Higher Tier 15.

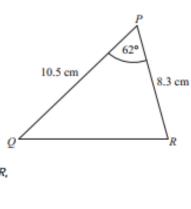


Diagram NOT accurately drawn

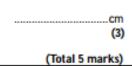
In triangle POR,

PQ = 10.5 cm, PR = 8.3 cm. angle QPR = 62°.

(a) Calculate the area of triangle PQR. Give your answer correct to 3 significant figures.

 	 	.cm²
		(2)

(b) Calculate the length of QR. Give your answer correct to 3 significant figures.



Pearson Edexcel - Friday 11 June 2010 - Paper 4 (Calculator) Higher Tier

(3)

(Total 5 marks)

 cm <sup>2</sup>
(2)

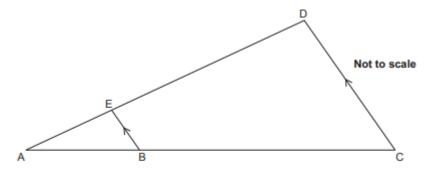
(b) Calculate the length of AB. Give your answer correct to 3 significant figures.



(Total 5 marks)

OCR GSCE – Monday 9 November 2020 – Paper 6 (Calculator) Higher Tier 18.

13 In the diagram, AED and ABC are straight lines and BE is parallel to CD.



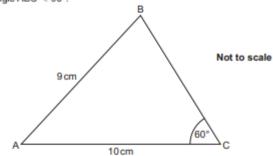
The ratio of length AB to length BC is 2 : 3. Triangle ABE has an area of  $8\,\mathrm{cm}^2$ .

Work out the area of triangle ACD.

cm
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### OCR GSCE – Monday 12 November 2018 – Paper 6 (Calculator) Higher Tier 19.

# 19 In this triangle: • AB = 9 cm • AC = 10 cm • BC > 5 cm • angle BCA = 60° • angle ABC < 90°.



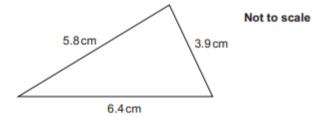
Calculate the area of triangle ABC.

	cm <sup>2</sup> [6]
Turn	auar.

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## OCR GSCE – Thursday 24 May 2018 – Paper 4 (Calculator) Higher Tier 20.

18 Calculate the area of this triangle.



......cm<sup>2</sup> [6]