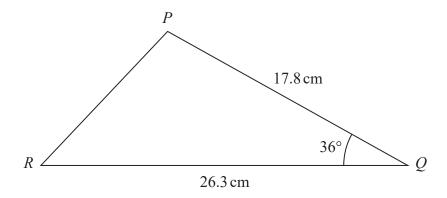
1	A triangle has sides of length 8 cm, 10 cm and 14 cm.	
	Work out the size of the largest angle of the triangle.	
	Give your answer correct to 1 decimal place.	
		0
		(Total for Question 1 is 3 marks)

2 The diagram shows triangle *PQR*.

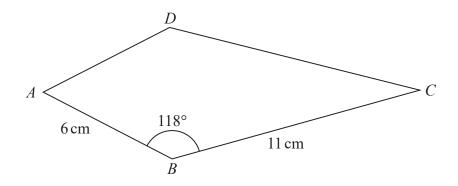


Calculate the length of *PR*. Give your answer correct to 3 significant figures.

	cm
--	----

(Total for Question 2 is 3 marks)

3 The diagram shows a kite *ABCD*



$$AB = 6 \,\mathrm{cm}$$

$$BC = 11 \text{ cm}$$

Angle
$$ABC = 118^{\circ}$$

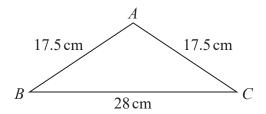
Calculate the area of the kite.

Give your answer correct to 3 significant figures.

cm ²		

(Total for Question 3 is 3 marks)

4 The diagram shows isosceles triangle ABC



$$AB = AC = 17.5 \text{ cm}$$

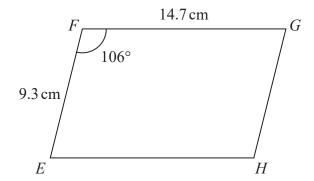
$$BC = 28 \text{ cm}$$

Calculate the area of triangle ABC

..... cm

(Total for Question 4 is 4 marks)

5 The diagram shows parallelogram *EFGH*.



EF = 9.3 cm FG = 14.7 cm Angle $EFG = 106^{\circ}$

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

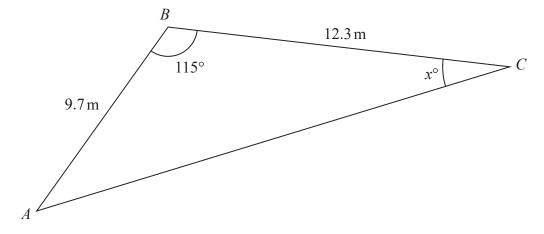
 	cm²
(2)	

(b) Work out the length of the diagonal EG of the parallelogram. Give your answer correct to 3 significant figures.

.....cm

(Total for Question 5 is 5 marks)

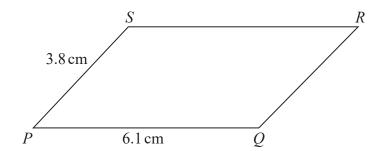
6 Here is triangle *ABC*



Work out the value of x Give your answer correct to 3 significant figures.

x =

7 Here is a parallelogram *PQRS*, in which angle *SPQ* is acute.



$$PQ = 6.1 \, \text{cm}$$

$$PS = 3.8 \,\mathrm{cm}$$

The area of the parallelogram is $18\,\mathrm{cm}^2$

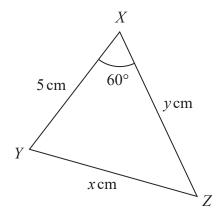
Work out the length of *QS*

Give your answer correct to 3 significant figures.

cm

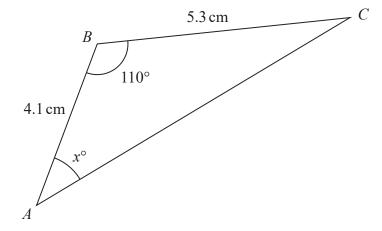
(Total for Question 7 is 5 marks)

8 Here is a triangle *XYZ*.



The perimeter of the triangle is k cm.

Given that x = y - 1 find the value of k. Show your working clearly. **9** Here is triangle *ABC*.

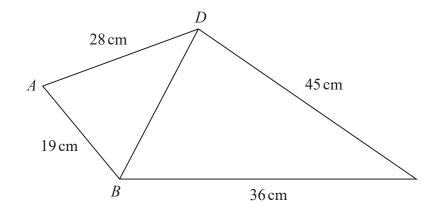


Calculate the value of *x*.

Give your answer correct to 3 significant figures.

(Total for Question 9 is 5 marks)

10 The diagram shows quadrilateral ABCD



The angle *BCD* is acute.

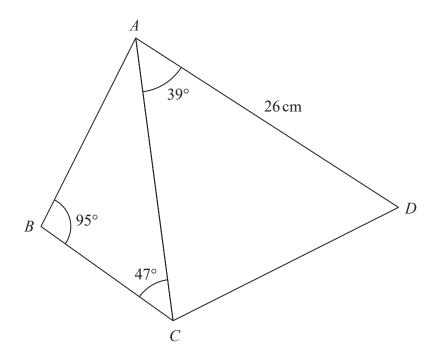
Given that the area of triangle $BCD = 405 \,\mathrm{cm}^2$

work out the size of angle ABD

Give your answer correct to one decimal place.

.....

11 *ABCD* is a quadrilateral.



The area of triangle ACD is $250\,\mathrm{cm}^2$

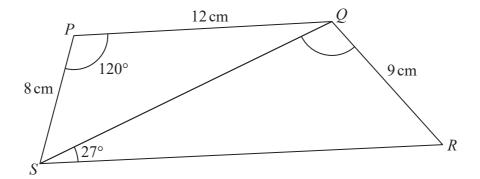
Calculate the area of the quadrilateral *ABCD*.

Show your working clearly.

Give your answer correct to 3 significant figures.

cm ²
CIII
(Total for Question 11 is 6 marks)
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12 Here is a quadrilateral *PQRS*.

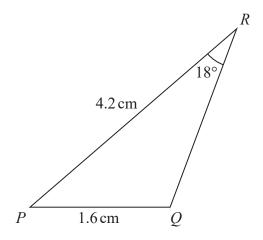


Angle SRQ is acute.

Work out the size of angle SQR.

Give your answer correct to 1 decimal place.

13 The diagram shows triangle *PQR*



$$PQ = 1.6 \,\mathrm{cm}$$

$$PR = 4.2 \,\mathrm{cm}$$

Angle
$$PRQ = 18^{\circ}$$

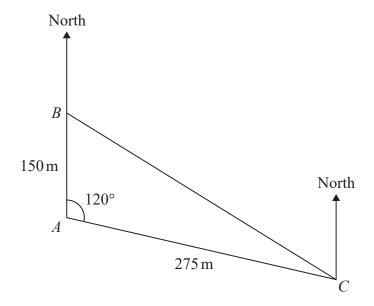
Given that angle *PQR* is obtuse,

work out the area of triangle *PQR*Give your engager correct to 2 signi

Give your answer correct to 3 significant figures.

..... cm²

14 The diagram shows the positions of three ships, A, B and C.



Ship B is due north of ship A.

The bearing of ship C from ship A is 120°

Calculate the bearing of ship C from ship B. Give your answer correct to the nearest degree.

o

15	A boat sails from point X to point Y and then to point Z .
	Y is on a bearing of 280° from X. Z is on a bearing of 220° from Y.
	The distance from X to Y is 3.5 km. The distance from Y to Z is 6 km.
(Work out the bearing of Z from X . Give your answer correct to 1 decimal place.
	0
	(Total for Question 15 is 5 marks)
	(10tmi 101 Question 13 is 3 marks)