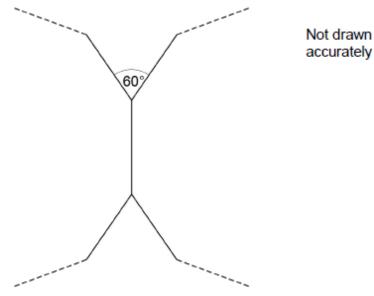
Non-Calculator

_	_	
$\boldsymbol{\cap}$	4	
u	ı	-

Two congruent regular polygons are joined together.



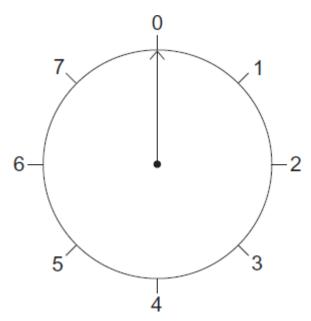
Work out the number of sides on each polygon.

nswer____

(Total 3 marks)

Q2.

A circular spinner has 8 equal divisions as shown.



(a) The arrow turns clockwise from 0 to 4
What angle does it turn through?

Answer _____ degrees (1)

(b) The arrow turns 45° clockwise from 5
What number does it point to?

Answer ______ (1)

(c) The arrow turns anti-clockwise from 7 to 4
What angle does it turn through?

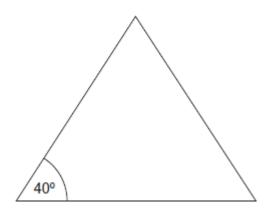
Answer _____ degrees

(Total 3 marks)

(1)

The diagram shows an isosceles triangle.

Not drawn accurately



Work out the possible **sizes** of the other **two** angles. Give both **different** pairs of answers.

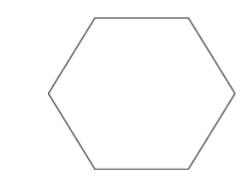
	40° and	and	
or	40° and	and	

(Total 3 marks)

Q4.

Show that the interior angle of a regular hexagon is 120°.

Not drawn accurately

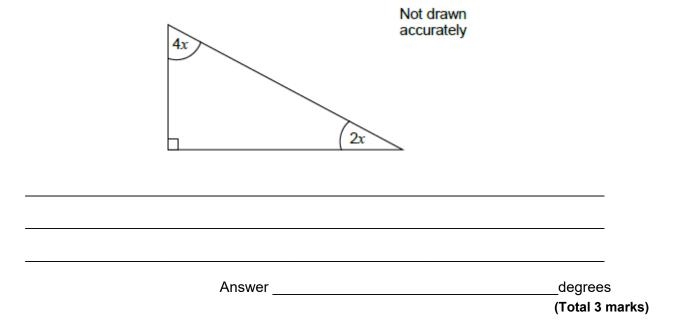


(Total 2 marks)

25	5.
	A regular polygon has an exterior angle of 20°
	Work out the number of sides of the polygon.
	Answer

Q6.

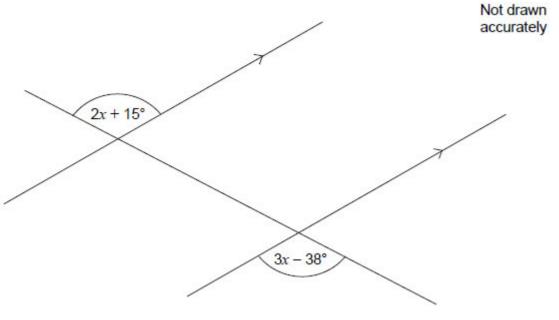
Work out the value of x.



(Total 2 marks)

Q7.

Three straight lines are shown.



Work out the value of x .		

Answer ______(Total 3 marks)

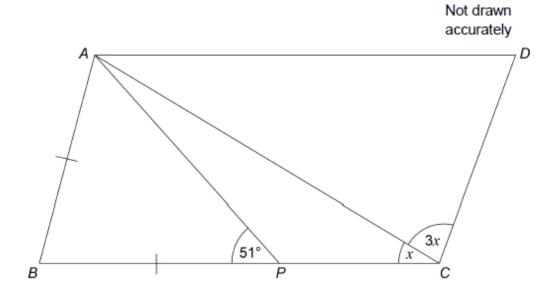
Calculator

Q8.

ABCD is a parallelogram.

Work out the size of angle x.

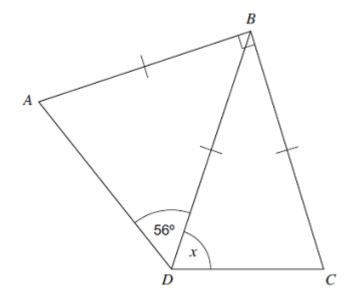
AB = BP



		degrees (Total 4 marks)
Ans	swer	degrees

Triangles ABD and BCD are isosceles. Angle ABC is 90°

Not drawn accurately



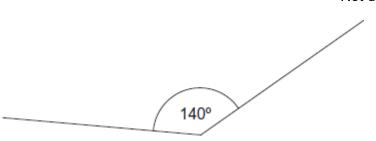
Work out the size of angle x .		
	Answer	degrees (Total 4 marks)
		(Total 4 marks)

Q10.

The diagram shows an interior angle of a **regular** polygon.

Not drawn accurately

(1)



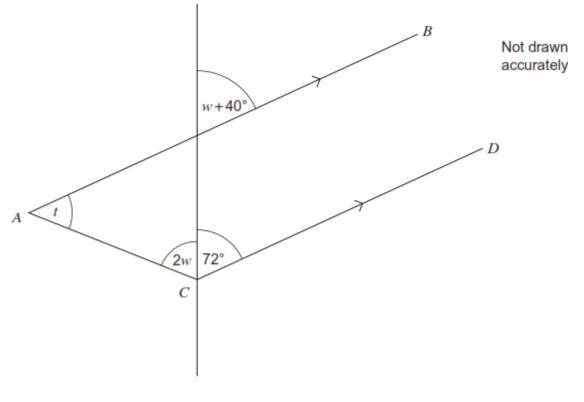
(a) Work out the size of an exterior angle of the polygon.

Answer _____ degrees

(b) Work out the number of sides of the polygon.

	Answer			

(2) (Total 3 marks)



Work out the value of t .		
	Answer	degrees

(Total 5 marks)

Q12.

One of the angles in a triangle is 60°

Tick a box for each statement.

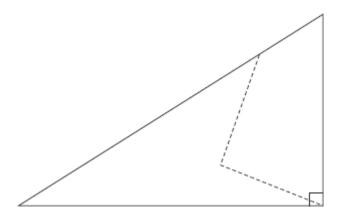
	Must be true	Cannot be true	Might be true
The triangle is equilateral			
The triangle has at least one other acute angle			
The triangle is right-angled			
The other two angles are each less than 60°			

(Total 4 marks)

Q13.

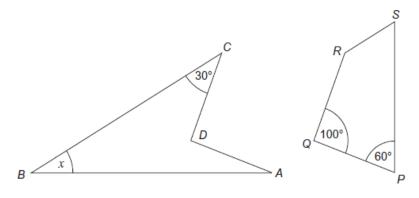
The diagram shows a right-angled triangle.

Not drawn accurately



The triangle is cut along the dotted lines to make two quadrilaterals, ABCD and PQRS.

Not drawn accurately



Work out the size of angle x . You must show your working, which may be on the diagram.	
	_
Answer	degrees
	(Total 4 marks)

Q14.

The exterior angle of a regular polygon is 45°

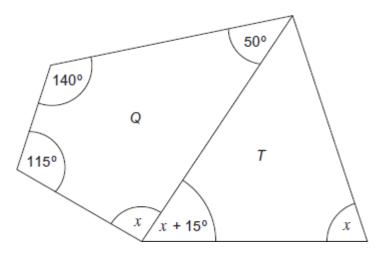
Circle the name of the regular polygon.

pentagon hexagon octagon decagon (Total 1 mark)

Q15.

The diagram shows quadrilateral Q and triangle T joined together.

Not drawn accurately



You must show your working, which may be on the diagram.	

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(Total 5 marks)