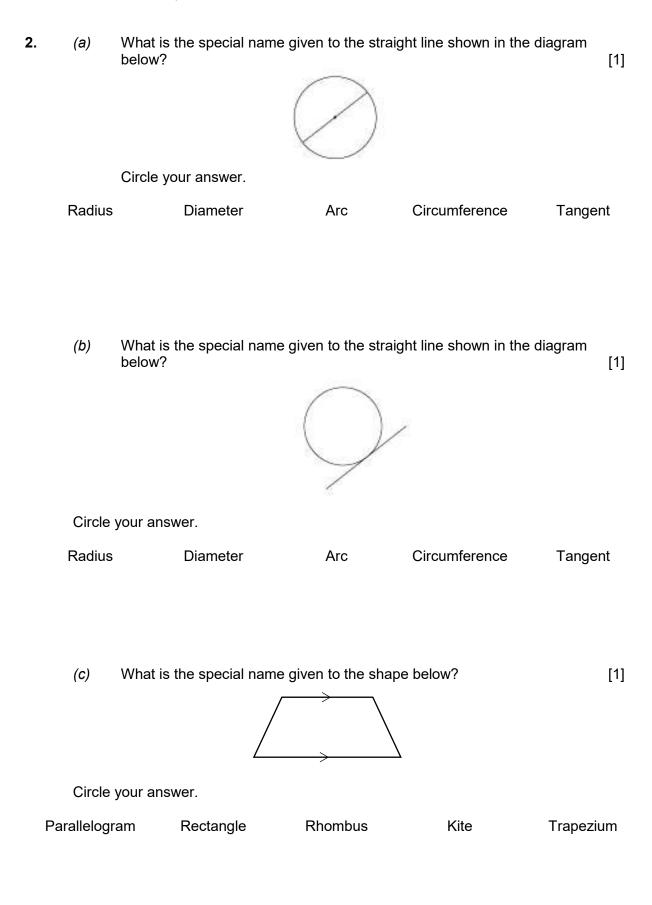
profit = number of tickets sold \times £5 $-$ cost of expenses.						
	Calculate the profit made when 84 tickets were sold and the cost of the expenses was £120.	[2]				

The profit made by a charity event is given by the formula



[3]

[1]

WALES ENGLAND WALES SCOTLAND

ENGLAND WALES IRELAND WALES

Alun has the eight cards shown above. He chooses one card at random.

- (a) On the probability scale below, mark the points A, B and C where:
 - A is the probability of Alun choosing a card with WALES written on it.
 - **B** is the probability of Alun choosing a card with FRANCE written on it.
 - **C** is the probability of Alun choosing a card with ENGLAND written on it.

0 1

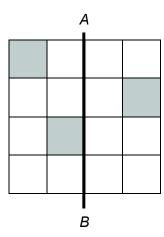
(b) The probability of Alun choosing a card at random with SCOTLAND written on it is $\frac{1}{8}$.

What is the probability of Alun choosing a card that does **not** have SCOTLAND written on it?

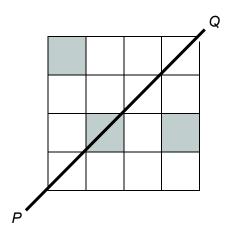
.....

Jsir	ng the two instruct	Each column must add up to 10	he blanks in the g	rid below.	[3]
	1	2	3		
	3	4	-5		
		4			
	1	0	9	0	Each row must add up to 10

- **5.** (a) In each of the following diagrams, shade **the smallest number** of squares required to answer the question.
 - (i) Shade the smallest number of squares required to make the line AB a line of symmetry. [1]



(ii) Shade the smallest number of squares required to make the line *PQ* a line of symmetry. [1]



(b) What is the order of rotational symmetry of the shape shown below?

[1]

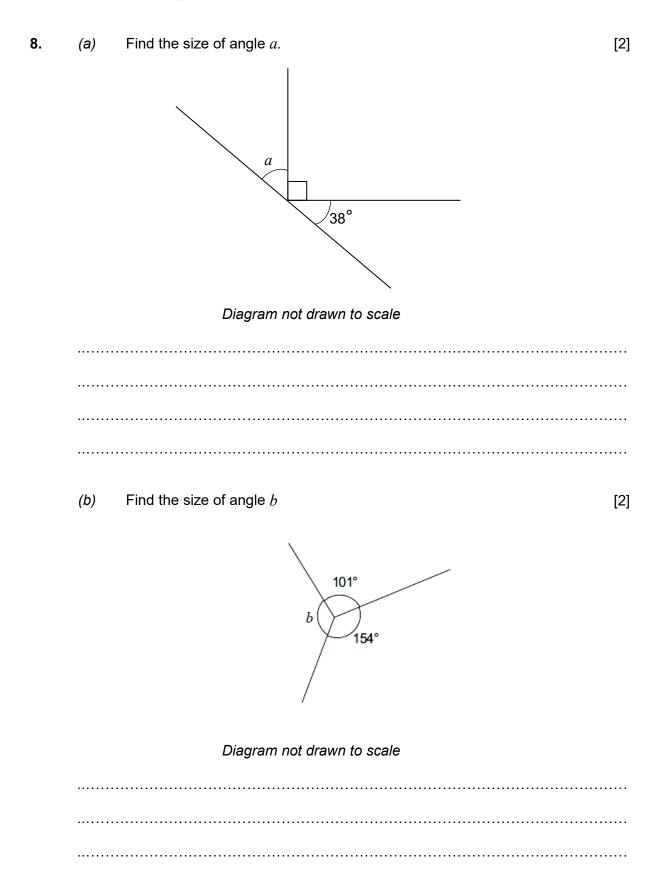


Order of rotational symmetry =

6.	(a)	1 2 3 4 5
		Choose any three cards from those shown above to make a three-digit number that is a multiple of 9.
		Give the answer to your calculation. [2]
		÷ 0 -
		- 9
	(b)	Dylan is 12 years older than Lois. Dylan is also three times as old as Lois. How old are Dylan and Lois? [2]
		Dylan isyears old

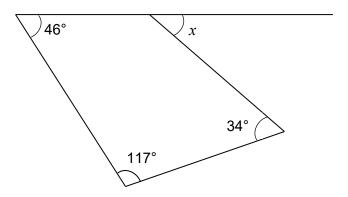
Lois isyears old.

7.	(a)	Solve the following equations.	
		(i) $7x = 21$	[1]
		(ii) $x + 5 = 9$	[1]
	(b)	Evaluate $2a-b+\frac{1}{2}c$, given that $a=3$, $b=4$ and $c=10$.	[2]
	(c)	Scarves are sold outside a football ground at £8 each. Write an expression for the cost, in pounds, of n of these scarves.	[1]



You will be assessed on the quality of your organisation, communication and accuracy in writing in this question.
Dewi visited a souvenir shop in order to buy some key rings. The key rings cost 68p each. Dewi bought as many as was possible with a £10 note.
How many key rings was Dewi able to buy, and what change did he get from £10? [6]

10. Find the size of angle x.



[3]

Diagram not drawn to scale

<i>x</i> =	•	

11. A number machine is shown below.

	_				
INPUT	─	-7	 × 3		OUTPUT
				'	

Circle your answer in each of the following.

(a) When the INPUT is 4 the OUTPUT is

33 –9 –17 9 17 [1]

(b) When the OUTPUT is 15 the input is

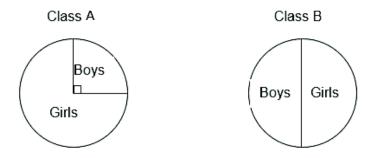
(c) When the INPUT is n the OUTPUT is

3n-7 n-21 7(n-3) -21n 3(n-7) [1]

A fifth number is to be added to the four numbers shown below.							
		6	10	15	21		
The mean of set of four nu			set of n	umbers	rs is bigger than the mean of the original		
What is the v	alue of t	he new	numbe	r?	[4	1]	
						•	
			New n	umber	r =		

13.	Shape A is a cube. Shape B is a cuboid. Both shape A and shape B have the same volume what is the height of shape B?	ume.	[4]
	Shape A 4 cm	Shape B 4cm	
	Diagrams not dra	wn to scale	

14. The two pie charts below show the ratio between the number of girls and the number of boys in each of two different classes.



There are **more** girls in class B than in class A.

Complete the table below to show a **possible** set of numbers that will satisfy all of the above information. [3]

	Girls	Boys
Class A		
Class B		

Worki	ng spac	ce:				

15.	The angles of a triangle are x° , $2x^{\circ}$ and $3x^{\circ}$. Form an equation in x , and use your equation to find the sizes of the three angles.					

ε	A B	

7.	Calculate $\frac{8\cdot 4 \times 5\cdot 3}{5\cdot 3}$	<u>3·7</u> . Give you 1·8	r answer corr	ect to 2 decima	al places.	[2
8.	Describe fully th	ne transformatio		orms shape A	onto shape B.	[3
			y			
			───── 6 -			
					+-	
			4		+-	
			3	$+++1$ ^ $+$	+-	
			2		+	
			1		+-	
		_6 _5 _4 _3	3 -2 -1 0	1 2 3 4	1	
			1	 	+	
			-2		+-	
			3	В	1	
			-4-		4	
					+-	
			<u> </u>			

MARKING SCHEMES