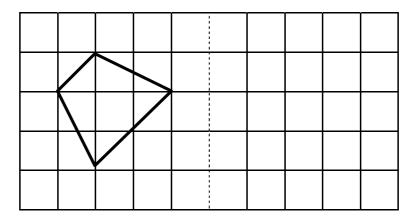
Write your name and your teachers name.	TIME 1hour 30 minutes	Paper 1 of 10 from ZigZag Education
Sample GCSE Examination Paper Foundation Tier Calculator Paper	Standard Equipment: pen, penc	ril, ruler, protractor, compasses, calculator.

Nam	ne	Teachers Name		Show your working.
1	Th	veral friends played a computer game. e table displays the scores of four of them.	Jason 6164 Sam 8129 Alex 4756 Kate 6390	
	(a)	Write these scores in numerical order, smallest first.		[1]
	(b)	How many more points did Kate score than Alex?		
	(c)	Jenny scored five thousand one hundred and thirty six p Write her score in figures.	points.	[1]
	(d)	Matt scored only 3/4 as many points as Jason. Write down the number of points scored by Matt.		
	(e)	Dave scored 60% of Kate's score. How many points did Dave score?		
	(f)	Dennis scored 7847 points. Write down the number of points scored by Dennis to the		[1]
2	(a)	This quadrilateral has two pairs of equal angles, and fou	ur equal sides.	
		What is the special name given to this quadrilateral?	Answer (a) (i)	[1]
		This triangle has two equal sides and two equal angles.		
		What is the special name given to this triangle?	Answer (a) (ii)	[1]
	(b)	Give the names of the three shapes below.		
		(i) (ii)	(iii)	
Ansv	ver (i)	[1] Answer (ii)	[1] Answer (i	ii)[1]

(c) Reflect the following shape in the dotted line.



[2]

3 The following table shows the rainfall in millimetres to fall in a garden on each day of a particular week.

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
3mm	6mm	0mm	1mm	4mm	5mm	5mm

(a) On which day of the week did the most rain fall?

Answer (a)[1]

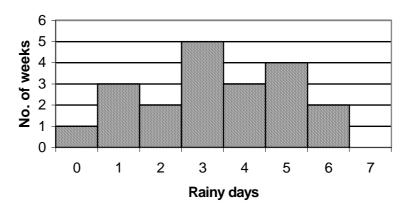
(b) What was the range of the rainfall for the whole week?

Answer (b) mm [1]

(c) What is the modal rainfall this week?

Answer (c) mm [1]

The number of rainy days per week is also recorded over several weeks. The results are shown in the following bar chart.



(d) What was the greatest number of rainy days in any week?

Answer (d) [1]

(e) Over how many weeks was this data collected?

_______Answer (e) ______[2]

During one particular week, three days are rainy. A day is chosen at random during this week.

(f) What is the probability that this day is rainy?

Answer (f)......[1]

(g) What is the probability that this day is not rainy?

Answer (g) [1]

	How many coaches were needed?		
		Answer (a)	[1
(b)	For another football match, two of the original coaches are replup to 55 people each. How many coaches are needed this time to	-	take
		Answer (b)	[2
(c)	Each supporter pays £8.50 towards travel costs and entry to the £988. Once the travel costs and entry to the match have been pay What was the total cost of entry to the match?		otal
		Answer (c) £	[2
The i	following is a sequence of patterns. Each pattern is made up of st	raight lines.	
P	Pattern 1 Pattern 2 Pattern 3		
(a)	Draw the next pattern (Pattern 4) in this sequence.		[1
(b)	Pattern 1 contains four straight lines. How many straight lines a	re added to each pattern to create	the
	next pattern in the sequence?	Answer (b)	[1
(c)	How many straight lines will there be in Pattern 6?	Answer (c)	[1]
(d)	Which pattern in the sequence will contain 25 straight lines?	Answer (d)	[2
	ges, apples, and bananas can be bought together in fruit boxes. fruit box contains 5 apples, 8 oranges and 3 bananas.		
(a)	How many bananas would there be in three fruit boxes?		
		Answer (a)	[1]
(b)	Joe buys some fruit boxes. His fruit boxes contain a total of 32 how much has Joe paid for the fruit boxes?		
		to contain a total of 40 annles	
(c)	Many boxes can be stored together in a crate. A crate is known How many boxes are stored in each crate?	to contain a total of 40 apples.	
(c)	•		[2]

		Answer (b)	km [2]
(c)	On my way back I am carrying my shopping, so I can only walk leave the shops to be back home by 14:15?	-	
	cost of a local bus journey depends upon the distance travelled in calculated as 12 pence per kilometre, plus 35 pence.	kilometres.	
(a)	What is the cost of a bus journey of three and a half kilometres?	Answer (a)	n [2
(b)	Another journey costs 86 pence. How long is this journey?	Allswei (a)	p [2 _]
(c)	What is the minimum cost for any bus journey?	Answer (c)	p [1]
The l	2.5m adder makes an angle of 70° with the ground. adder reaches 2.5m up the wall.	Diagram drawn acct	
(a)	Complete a scale drawing of the ladder below. The ground and wall have already been drawn. Use a scale of 200	em to 1m.	
			[2]
(b)	i) Measure the distance in your diagram of the wall from the fo		
	ii) How far is the actual distance of the wall from the foot of the	Answer (b)	cm [1]

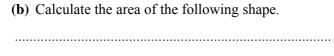
10	(a)	A cube It is five high, a	ve cubo	es long	g, four hat is t	cubes he vol	wide a ume of	nd thre	ee cube uboid?	es	 Answ	ver (a)		cm	³ [2]
	(b)	What i													[-]
								4	y		 Answ	ver (b)	 	cm	² [2]
11	(a)														
														O is the origin	;
							A								
									o				→ x		
						В				C					
												D			

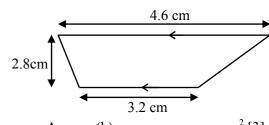
(i)	Describe fully the	transformation	that maps A onto B

[2]

(ii) Describe fully the transformation that maps C onto D

[2]





	different	supermarket, a one kilogram bag of sugar can be bought for £1.60. g of sugar costs 45p.	
(b)		of the two bags of sugar represents the better buy if the smaller bag of sugar we your answer.	eighs 250g?
		Answer (b)	
(c)		ision set costs £800. In a sale, its price is reduced by 14%. the new price of the television set after the reduction?	
		Answer (c) £	
(a)	-	ack books cost £4.50 each, and hardback books cost £6.50 each. own an expression for the cost, in pence, of x paperback books and y hardback Answer (a)	
(b)	Solve th	the equation $6x + 5 = 29$	[4]
		The equation $6x + 3 - 25$	
		Answer (b) $x = $	[2]
(c)	When y		[2]
(c)	(i)	Answer (b) $x = \dots$	
(c)	(i) (ii)	Answer (b) $x = $	[1]
(c)	(i)(ii) (iii)	Answer (b) $x =$ $y = 3x + 2 - x + 3$, Simplify the expression for y Answer (c)(i) $y =$ Find the value of y when $x = 3$ Answer (c)(ii) $y =$ Find the value of x when $y = 17$	[1]
(c)	(i)(ii)(iii)	Answer (b) $x =$	[1]
	(i)(ii)(iii)	Answer (b) $x =$ $y = 3x + 2 - x + 3$, Simplify the expression for y Answer (c)(i) $y =$ Find the value of y when $x = 3$ Answer (c)(ii) $y =$ Find the value of x when $y = 17$	[1]

A two pint carton of milk costs 65p at the local supermarket. At the same supermarket, a four pint container of milk costs £1.19.

12

(b)	33.5
(D)	$\sqrt{63.2}$

Ansv	ver (t	o)	[1	.]
 6.7 + 2.9				

(c)
$$\frac{6.7 + 2.9}{4.92 - 1.15}$$

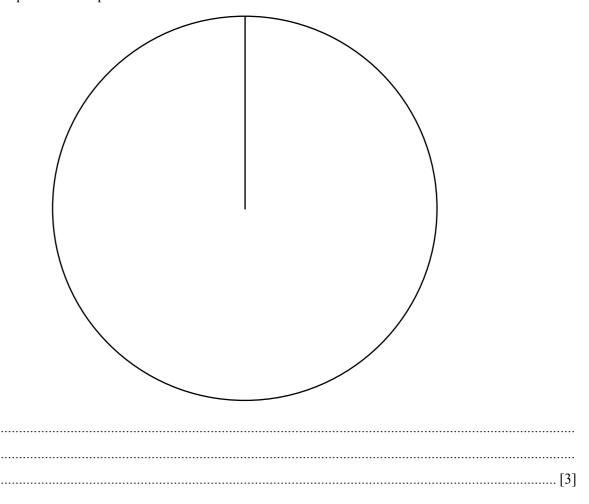
(d)
$$5.5 - 3.2 \times 1.98 + 8.1$$

- A survey was carried out to find out the favourite colours of 120 children. The results were shown in a pie chart.
 - (a) In this pie chart, area representing yellow covered an angle of 63°. How many of the children asked said that yellow was their favourite colour?

(b) Another 120 children were asked the same question at a different school. The results are shown in the table below.

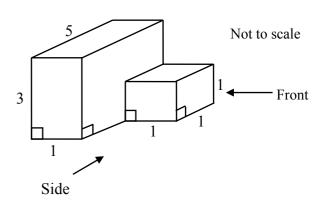
Colour	Red	Blue	Yellow	Green	Other
Number of children	38	26	18	22	16

Draw a pie chart to represent these results.

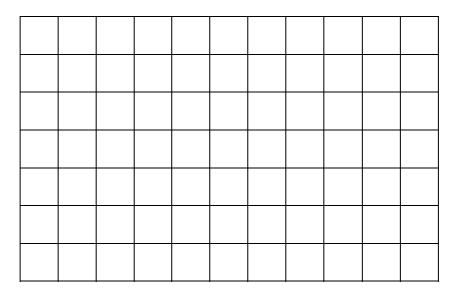


16 The drawing shows a three dimensional solid

All measurements in cm



(a) On the grid below, draw front and side elevations of this solid.



17 The table shows the heights of all the basketball players taking part in a competition.

Height (h cm)	No. of players
h < 170	12
$170 \le h \le 180$	16
$180 \le h < 190$	19
190 ≤ h	13

[3]

(a)	How many basketball players were taking part in this competition?
(b)	How many basketball players were more than 170cm tall?
	Answer (b)[1]
(c)	What percentage of all the players were more than 170cm tall?
(d)	One of the players is chosen at random. Calculate the probability that player is shorter than 170cm.
	Answer (d)[1]