	DO NOT WRITE ON THIS PAPER	TIME 2 hours	Paper 4 of 5 from ZigZag Education
Sample GCSE Examination Paper		Standard Equipment: lined or squared paper, pen, pencil, ruler, CALCULATOR.	
	Intermediate Tier Calculator Paper	Additional Equipment: graph pap	er, pair of compasses, plain paper. Protractor Q10.
1.	Solve the equations- a) $7x + 3 = -11$ b) $q + 3 = 3q + 99$		5 marks
2.	Find the value of y when $x = -2$ a) $y = 7 + 3x$ b) $y = 7 - 3x$		4 montra
2	y = 7 - 3x	als sum of the triangle	4 marks
3.	b) Calculate <i>x</i>.	gie sum of the trangle.	$5x$ 5 marks x°
4.	Work out the following giving your and (a) 1.66^3 (b) 1.66^{11}	nswer to a suitable degree of a	ccuracy– 4 marks
5.	a) Showing your working order t	the following fractions starting $\frac{2}{3}, \frac{1}{2}, \frac{4}{7}, \frac{5}{6}, \frac{83}{100}$.	g with the smallest–
	b) Write down a fraction which i	s bigger than $\frac{5}{6}$ and smaller th	$\tan \frac{6}{7}$. 6 marks
6.	A car normally costs £12,000. Joha pays with cash and receives a 209 Calculate the cost of the car after the d	% discount. liscount.	3 marks
7.	This is the net of a simple three dimena) Calculate the length of the netb) Calculate the surface area of the	sional solid. marked <i>x</i> cm. he solid shape the net will ma 4 marks	ke. 4 cm
8.	Calculate the missing angle <i>x</i> .	x°	x cm 133° 4 marks 40°
9.	 a) How many square metres is 16 b) How many square centimetres 	cm^2 . s is $4m^2$.	103 ° 4 marks

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10. In a survey, 720 people were asked to record the colour of their cars. Some of the information is shown in the table.

Colour of Car	Number of people
Red	?
White	126
Blue	?
Silver	148
Green	?
Other	90

The same information is also shown in a pie chart. The pie chart is incomplete. Complete the pie chart. 6 marks



How many blue cars were recorded in the survey?

11. 200 plant seeds were divided into 2 groups. Group A and group B.Group A were grown in field A. Group B were grown in field B.The box and whisker plot of the heights of the plants is shown below.

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a) Comment on one statistical feature that is the same between the two groups.
 The plants are sold. The plants achieve a selling price dependent on how tall they are.
 The taller plants get more money. The plants sell for £3 per cm in height.
 The farmer can only sell the plants from one of the fields.

- b) Which plants, from field A or B, do you think the farmer should sell? Justify your answer.
- c) Estimate the 3^{rd} quartile for group B.

4 marks



15. Describe the correlation, if any, in each of the scatter diagrams below. A line of correlation is shown on diagram i).



 $x \times$

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