Write your name and your teacher's name.		ur name and your teacher's name.	<b>TIME</b> 1 hour 30 minutes	Paper 4 of 5 from ZigZag Education
	Sample	GCSE Examination Paper	Ctor land E-minmante and a	
	Founda	ation Tier Calculator Paper	Standard Equipment: pen, penc	il, ruler, protractor, compasses, calculator.
1	(a)	Write down all of the factors of 30	)	.Answer[2]
	<b>(b)</b>	Write down all the common factor	rs of 24 and 36	Answer[2]
	(c)	Write the number 8956 in words		[1]
	( <b>d</b> )	Write down 8956 to the nearest 10		Answer [1]
	(e)	Write down what the 5 stands for	in 8956	Answer [1]
2	<b>(a)</b>	Write down the next two numbers	in this number sequence.	
		2, 9, 16, 23,		[1]
	<b>(b</b> )	Write down the rule that you used	to find the next two numbers.	
				[1]
3	Geo	rge had £300 in his bank account. H	Ie spent £136 of this money.	
	<b>(a)</b>	How much did he have left?		.Answer[2]
	Geo	rge buys eight stamps. Each stamp	costs 37p. He only has a £5 not	te.
	<b>(b)</b>	How much change does George go	et?	
				.Answer[2]
	The	next day, George returns with £10.		
	(c)	What is the maximum number of 3	37p stamps that George can buy	with this money?
				.Answer
4	(a)	A circular cake weighs 136g. A s		
		The slice is $\frac{3}{8}$ of the original cake		
		What is the weight of the slice?		.Answer[2]
	<b>(b</b> )	Three parcels weighed 56kg, 73kg (i) Work out the total weight of the	, and 95kg. he parcels.	
		(ii) What fraction of the total weig		.Answer[1]
				.Answer[2]

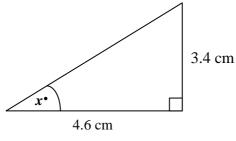
5 Solve the following equations.

- (a) 3x = 18
- **(b)** y + 5 = 12

Simplify the following expressions.

- (c) m + m + m m + m
- (d) 3n 4n + 5n 6n
- **6** Here is a right angled triangle.

7



Not drawn accurately



Answer	[1]
Answer	[1]

(a) Make an accurate drawing of the triangle.

[3]

8	<b>(a)</b>	Calculate the angle marked $z$ below.	/	
			$\searrow$	
			40	
				••
			Answer[2	?]
	<b>(b)</b>	Calculate the angle marked <i>w</i> below.		
		$(95^{\circ})$ w $(140^{\circ})$		
			۸	 • 1
_				-1
9	(a)	A multipack of crisps contains three salt and vinegar packets, th ready salted packets, and two smoky bacon packets.	ree cheese and onion packets, four	
		One packet of crisps is opened at random from the multipack.		
		(i) What is the probability that this packet contains ready salted	d crisps?	
		()	Answer[1	.]
		(ii) What is the probability that this packet contains either salt a	nd vinegar or cheese and onion crisps	?
			Answer	2]
		(iii) What is the probability that the packet does not contain smo	Answer	<b>)</b> 1
		······	Aiiswei	-1
	(b)	Here are six numbers		
		39, 81, 52, 90, 15, 38		
		(i) What is the mean of these six numbers?		
			Answer [2	<u>'</u> ]
		(ii) What is the median of these six numbers?	Answer[1	.]
10	Stua	art had £90 at the beginning of the day. He gave $\frac{2}{5}$ of this to Paul	in the morning.	
		the afternoon, Stuart gave Frank $\frac{2}{3}$ of his <i>remaining</i> money.		
		culate the amount of money that Stuart had left at the end of the da	N7	
		curate the amount of money that Stuart had left at the end of the da		
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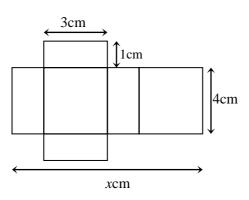
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11 Work out the following, giving all your answers exactly–

(a)	$\frac{8.3 - 4.2}{0.41}$	Answer[1]
(b)	$\frac{-7.6 + 5.2}{17.7 - 8.1}$	Answer[2]
(c)	$(5.2)^3$	Answer[1]

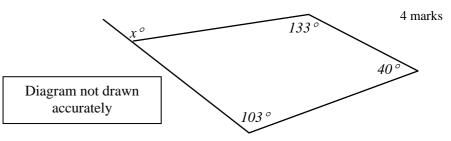
For Questions 12 onwards there is no marked out space to write your answers. Where there is not enough space, write your answers on separate paper. In your actual GCSE examination, marked spaces are normally provided on the whole paper.

12.	Solve the equations- a) $7x + 3 = -11$ b) $q + 3 = 3q + 99$	5 marks
13.	Find the value of y when $x = -2$ a) $y = 7 + 3x$ b) $y = 7 - 3x$	4 marks
14.	a) Work out a formula for the angle sum of the triangle. b) Calculate <i>x</i> .	5 marks $x^{\circ}$
15.	<ul> <li>Work out the following giving your answer to a suitable degree of accuracy–</li> <li>(a) 1.66<sup>3</sup></li> <li>(b) 1.66<sup>11</sup></li> </ul>	4 marks
16.	a) Showing your working order the following fractions starting with the smallest- $\frac{2}{3}, \frac{1}{2}, \frac{4}{7}, \frac{5}{6}, \frac{83}{100}$ .	
	b) Write down a fraction which is bigger than $\frac{5}{6}$ and smaller than $\frac{6}{7}$ .	6 marks
17.	A car normally costs £12,000. Joha pays with cash and receives a 20% discount. Calculate the cost of the car after the discount.	3 marks
18.	<ul> <li>This is the net of a simple three dimensional solid.</li> <li>a) Calculate the length of the net marked <i>x</i>cm.</li> <li>b) Calculate the surface area of the solid shape the net will make.</li> </ul>	4 marks



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19. Calculate the missing angle *x*.



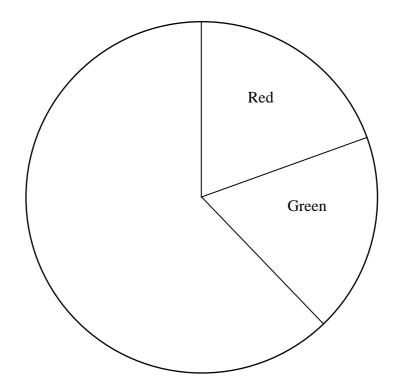
- How many square metres is 1cm<sup>2</sup>? How many square centimetres is 4m<sup>2</sup>? 20. a)
  - b)

4 marks

21. 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?