GCSE CALCULATOR DIAGNOSTIC ASSESSMENT 2

Name
Course

Score: /30

Question	1	2	3	4	5	6	7a	7b	7c	8	9	10	11	12	13	Total
Mark(s) Available	1	1	1	1	5	1	2	2	3	3	2	1	2	3	2	
Mark achieved																

	150 mm	1.5 cm	7	.8 cm	708 mm
					[1 mark]
2) In a pi	e chart, one se	ctor represer	nts ¼ of the o	data.	
What is th	e angle of that	sector? Circl	e your answ	er.	
	4°	25°	45°	90°	
					[1 mark]
3) Which	of these canno	ot be the nun	nber of lines	of symmetry o	f a triangle?
Circle you	r answer.				
	0	1	2	2	
	0	1	2	3	[1 mark]
4) Solve	n + 7 = 103	3			
n =					
					[1 mark]

1) Add 8 mm to 7 cm Circle your answer.

5) Beth sells hot dogs at a market. Each hot dog is a sausage in a bread roll. The table shows her costs. Fee paid to market £240 **Bread rolls** 42p per pack of 6 £2.50 per jar Sausages Other costs £57 Beth sells the hot dogs for £3 each. She sells 300 hot dogs. Work out her total profit.

Answer £.....

[5 marks]

6) Circle the cube number.

9 10 000

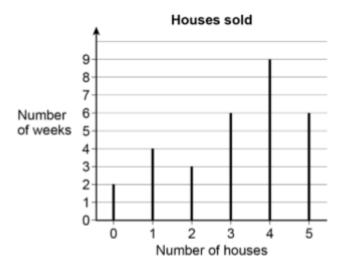
333

729

[1 mark]

A company sells houses.

The line graph shows the number sold per week for 30 weeks.



(a)	Work out the range of the number of houses sold per week.	[2 marks	

Answer

(b)	Work out the median number of houses sold per week.	[2 marks]

Answer _____

The company sells three houses. The prices are £185 000, £239 000 and £136 000. The company earns 2% commission on each house. In total, how much commission does the company earn on these three houses?
Answer £
[3 marks]
8) Four friends all give each other presents. The total cost of the presents is £83.40
Work out the mean cost of a present.
Answer £

[3 marks]

9) A forest	has 6500 tre	es.			
The trees ar	e beech or n	naple.			
num	ber of beech	: number of n	maple = 1.6 : 1		
What fraction	on of the tre	es are beech?			
					•
					•
					•
•••••					•
Answer					
				[2 marks	31
				•	•
10) A shape	e is translate	d by the vecto	or $\binom{0}{4}$		
In which di	rection does	the shape mo	ove?		
Circle your	ancwer				
Circle your a	aliswei.				
	up	down	left	right	
				[1 mark	را
				<u>(</u> =	۲.
11) The leng	gth of a table	e is 110 cm to	the nearest cm		
Complete t	he error inte	rval			
complete t	חופ פווטו ווונפ	ı val.			
		cm :	≤ length <	cm	
				[2 marks	5]

12) Doug owes an amount of £600.
He wants to pay back this amount in five months.
He says, "Each month, I will pay back 20% of the amount I still owe."
Show working to check if his method is correct.
[3 marks]
13) The term-to-term rule of a sequence is
Culature et a un el manulation la la C
Subtract and multiply by 5
The third term of this sequence is 120
120
Work out the first term.
Work out the mist term.
[2 marks]