



BennettMaths AQA 3F – Part 3

	Match the name to the correct sequence.		
	One has been done for you.		[2 ma
	Name	Sequence	
Γ	Quadratic sequence	10, 7, 4, 1, –2	
L		7, 16, 27, 40, 55	
	Linear sequence	1, 5, 9, 11, 13	
	Fibonacci-type sequence	2, 5, 7, 12, 19, 31	
	The number of foxes in England is expected to incr Assume there are now 357 000 foxes in England. Work out the expected number of foxes in England		
	Assume there are now 357 000 foxes in England.		[3 ma
	Assume there are now 357 000 foxes in England. Work out the expected number of foxes in England		[3 ma
	Assume there are now 357 000 foxes in England. Work out the expected number of foxes in England		[3 ma
	Assume there are now 357 000 foxes in England. Work out the expected number of foxes in England		[3 ma
	Assume there are now 357 000 foxes in England. Work out the expected number of foxes in England		[3 ma
	Assume there are now 357 000 foxes in England. Work out the expected number of foxes in England You must show your working.		[3 ma

He	ere is a cube A.	
	A	Not drawn accurately
Cı	uboid B is made from twelve of cube A.	
	В	
He "sı	Flume of A : volume of B = 1 : 12 enry says, urface area of B must be 1 : 12 because cuboid B is	made of 12 of A."
	Henry correct? ck one box.	
	Yes No	Cannot tell
Gi	ve a reason for your answer.	[2 marks]
_		

20 (a) Complete the table of values for

$$y = x^2 - 4x$$

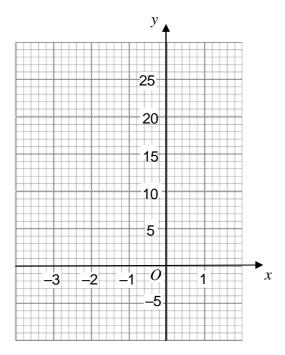
x	-3	-2	-1	0	1
y	21		5	0	

20 (b)

Draw the graph of
$$y = x^2 - 4x$$
 for values of x from -3 to 1

[2 marks]

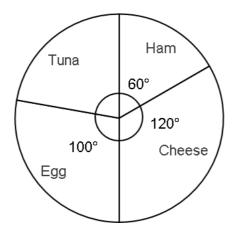
[2 marks]



Turn over for the next question

Shirley has £5625	
She saves some and donates the rest to charity.	
money saved : money given to charity = 2 : 7	
She gives each of five charities the same amount.	
Does each charity receive more than £870 ?	
You must show your working.	
	[4 ma

The pie chart shows information about customers choice of sandwich filling.



Not drawn accurately

12 more customers chose egg than chose ham.

Work out the number of customers who chose tuna.

		[3 marks]

Answer _____

Turn over for the next question

23	Use trigonometry to work out the value of x.	
	Not drawn accurately 14 cm	
	[3 mai	rks]
	x = cm	

24	Aiza is estimating the value of $\frac{2}{\left(\sqrt{4.36}\right)^3 \times 5.49}$	
	She rounds each decimal number to 1 significant figure.	
24 (a)	Work out Aiza's estimate. You must show your working. [2 mark	(s]
	Answer	
24 (b)	Aiza says, "My estimate must be larger than the exact value."	
	Without working out the exact value, give a reason how she can know this. [1 mar	k]
	Turn over for the next question	

25	(a)	Factorise $x^2 + 4x - 21$ [2 marks]	Do not write outside the box
		Answer	
25	(b)	Write down the two solutions of $(y-9)(y-2)=0$	
		[1 mark]	
		Answer	
		END OF QUESTIONS	