# AQA

Please write clearly in	block capitals.
Centre number	Candidate number
Surname	
Forename(s)	
Candidate signature	

## GCSE MATHEMATICS

Foundation Tier Unit 1 Statistics and Number

Thursday 26 May 2016

Morning

Time allowed: 1 hour

### **Materials**

For this paper you must have:

- a calculator
- mathematical instruments.

### Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book.

### Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 54.
- The quality of your written communication is specifically assessed in Questions 4 and 11. These questions are indicated with an asterisk (\*).
- You may ask for more answer paper and graph paper. These must be tagged securely to this answer book.

### Advice

In all calculations, show clearly how you work out your answer.







1 (a)	Circle the city that had	the lowest number of	rainy days.	[1 mark]
	Adelaide	Melbourne	Perth	Sydney
1 (b)	Circle the city that had			
		100 rainy days		
	and	more than 100 sun	ny days.	[1 mark]
	Adelaide	Melbourne	Perth	Sydney
1 (c)	How many <b>more</b> sunny	days than rainy days	did Adelaide have?	[2 marks]
	Ansv	ver		
1 (d)	Use the pictograms to r	nake <b>two</b> comparisor	ns between Melbourne	e and Perth. [2 marks]
	Comparison 2			



Turn over ►

[1 mark]
rtain
[1 mark]
rtain
2 marks]



100 people vote for A, B, C or D.

35 vote for A.

3

 $\frac{1}{4}$  vote for B.

20 more vote for C than D.

Use the grid to show this information on a bar chart.

[4 marks]





(a)	Here is a list of Meera's wages for Marc	ch and April.	
	March	April	
	£131.00	£104.80	
	£163.75	£144.10	
	£117.90	£117.90	
	£170.30	£131.00	
	In total, how much <b>more</b> were her wage	es in March than in April?	[2 mark
	Answer £		
)	In June, her total wages are £560 She saves 12% of this amount.		
	How much does she save?		[2 mark
	Answer £		



5	There are four seats in a row for Jon (J), Kim (K), Lee (L) and Mo (M). Jon sits in the first seat.	
	J	
	The others choose a seat at random.	
5 (a)	Write down <b>all</b> the possible arrangements. One has been done for you.	[2 marks]
	JKLM	
5 (b)	What is the probability that Kim and Lee sit next to each other?	[1 mark]
	Answer	



Turn over ►





7	A travel company gives this survey to its customers.	
	How many hotels have you stayed in? Tick a box. 0 to 3 3 to 6 7 to 10 11 to 14	
7 (a)	Write down <b>two</b> things that are wrong with this survey.	2 marks]
	2	
7 (b)	Complete the response section for this question.	[1 mark]
	How many nights did you stay in a hotel last week?	







8 (b)	What percentage of the animals are cows?	[3 marks]
	Answer%	
	Turn over for the next question	



Number of I	people in act	Number of acts	
	1	12	
:	2	9	
:	3	2	
	4		
Altogether there	are 68 people		
Work out the nu	mber of acts with	h 4 people.	
			[3 m
	Answer		 
	Answer		 
64% of the audi	Answer		
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64% of the audi Work out the rat Give your answe	Answer ence are female io female er in its simplest	es : males form.	[2 m











**11 (b)** Tess collects reward points each week based on the amount spent.

Amount spent each week	Reward points
Less than £25	0
£25 – £50	10
More than £50	20

Each point is worth 4 pence.

Work out the value, in £, of the points she has collected.

[3 marks]

Answer £

Turn over for the next question

Turn over ►

The table shows the ages of some teachers.

Age (years) Frequency 5  $20 \leq age < 30$ 13  $30 \leqslant \text{age} < 40$ 9  $40 \leq age < 50$ 6  $50 \leq age < 60$ 2  $60 \leq age < 70$ 12 (a) How many of the teachers are at least 40 years old? [1 mark] Answer







Turn over ►

A game had 100 lettered tiles.	
The probability of choosing an $\left( A \right)$ at random was $\frac{3}{25}$	
20 tiles were then lost.	
The probability of choosing an $A$ at random is now $\frac{1}{10}$	
How many A tiles were lost?	[3 marks]
Answer	
END OF QUESTIONS	









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