Write your name here			
Surname		Other names	
Edexcel GCSE	Centre Number		Candidate Number
Mathema	tics R		
Unit 1: Statistics an		•	
		•	ulator) ndation Tier
	d Probabili	Fou	ndation Tier
Unit 1: Statistics an	d Probabili	Fou	ndation Tier
Unit 1: Statistics an Tuesday 9 November 2010	d Probabili	Fou	ndation Tier

Instructions

- Use **black** ink or ball-point pen.
- Fill in the boxes at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided - there may be more space than you need.
- Calculators may be used.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

Information

- The total mark for this paper is 60.
- The marks for **each** question are shown in brackets
 - use this as a guide as to how much time to spend on each question.
- Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed
 - you should take particular care with your spelling, punctuation and grammar, as well as the clarity of expression, on these questions.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.



• Check your answers if you have time at the end.



Turn over 🕨

edexcel



6/6/5/6

GCSE Mathematics 2MB01

Formulae: Foundation Tier

You must not write on this formulae page. Anything you write on this formulae page will gain NO credit.

Area of trapezium = $\frac{1}{2}(a+b)h$





Volume of prism = area of cross section × length



		Answer ALL question	S.
		Write your answers in the space	
		You must write down all stages in	your working.
1	Here is a pic It shows the	ctogram. number of goals scored by Azeem, by Brad and	d by Chris.
	Azeem		
	Brad	$\bigcirc\bigcirc$	Key
	Chris	$\bigcirc \square$	represents 4 goals
	Dean		
	(a) Write do	own the number of goals scored by Brad.	
			(1)
	(b) Write do	own the number of goals scored by Chris.	
			(1)
	Dean scored	6 goals.	
	(c) Show th	is information on the pictogram.	(1)
		(T	otal for Question 1 is 3 marks)



Mobile phone Price Camera MP3 FM Radio Video Astra £24.97 \checkmark \checkmark \checkmark \checkmark Pixar £39.97 \checkmark \checkmark \checkmark \checkmark Spark £34.23 \checkmark \checkmark \checkmark \checkmark Tacco £34.97 \checkmark \checkmark \checkmark \checkmark Which of the five mobile phones is the most expensive? (1) (1) Which of the mobile phone has Video but not FM Radio? (1) (1)				Fe	ature		
Crystal £24.97 \checkmark \checkmark \checkmark Pixar £39.97 \checkmark \checkmark \checkmark Spark £34.23 \checkmark \checkmark \checkmark Tacco £34.97 \checkmark \checkmark \checkmark Which of the five mobile phones is the most expensive? (1) Which of the mobile phones have MP3? (1) Which mobile phone has Video but not FM Radio? (1)	Mobile phone	e Price	Camera	MP3	FM Radio	Video	
Pixar £39.97 \checkmark \checkmark \checkmark Spark £34.23 \checkmark \checkmark \checkmark Tacco £34.97 \checkmark \checkmark \checkmark Which of the five mobile phones is the most expensive? (1) Which of the mobile phones have MP3? (1) Which mobile phone has Video but not FM Radio? (1)	Astra	£24.97	\checkmark				
Spark £34.23 \checkmark \checkmark \checkmark Tacco £34.97 \checkmark \checkmark \checkmark Which of the five mobile phones is the most expensive? (1) Which of the mobile phones have MP3? (1) Which mobile phone has Video but not FM Radio? (1)	Crystal	£24.97	\checkmark			\checkmark	
Tacco £34.97 ✓ <th<< td=""><td>Pixar</td><td>£39.97</td><td>\checkmark</td><td>\checkmark</td><td>\checkmark</td><td></td><td></td></th<<>	Pixar	£39.97	\checkmark	\checkmark	\checkmark		
Which of the five mobile phones is the most expensive? (1) Which of the mobile phones have MP3? (1) Which mobile phone has Video but not FM Radio?	Spark	£34.23	\checkmark		\checkmark	\checkmark	
(1) Which of the mobile phones have MP3? (1) Which mobile phone has Video but not FM Radio?	Тассо	£34.97	\checkmark	\checkmark	\checkmark	\checkmark	ĺ
(1)							
						((1)
						((1)
						((1)
						((1)
						((1)
						((1)



Mirza has a monthly plan for his mobile phone. Each month, he pays a total of £9.79 plus the cost of any extra minutes.

Monthly Plan

For **£9.79** per month you get:

100 minutes and unlimited texts.

Extra minutes: 24.5p each

Last month, Mirza used 112 minutes.

(d) Work out how much he paid in total last month.

£

(4)

(Total for Question 2 is 7 marks)



3 Lynn lives in Baston.

She is going to go to the cinema in Peterborough. She will travel by bus between Baston and Peterborough.

Here is part of the bus timetable from Bourne to Peterborough and from Peterborough to Bourne.

	Bo	urne to	Peterbo	rough			
Bourne	1500	1530	1600	1630	1700	1730	1830
Baston	1512	1542	1612	1642	1712	1742	1842
Market Deeping	1520	1600	1620	1700	1720	1800	1850
Northborough	1524	1604	1624	1704	1724	1804	1854
Glinton	1528	1608	1628	1708	1728	1808	1858
Peterborough	1540	1620	1640	1720	1740	1820	1910

	Pet	terborou	igh to B	ourne			
Peterborough	1730	1745	1800	1830	1930	2015	2145
Glinton	1742	1757	1812	1842	1942	2027	21 57
Northborough	1746	1801	1816	1846	1946	2031	2201
Market Deeping	1750	1805	1820	1850	1950	2035	22 05
Baston	1805	1810	1835	1905	1955	20 50	2210
Bourne	1817	1822	1847	1915	2005	21 00	2220

It takes Lynn 30 minutes to walk between the bus station in Peterborough and the cinema. The latest bus she can catch home leaves Peterborough at 21 45

Lynn wants to watch a film called Sherlock Holmes.

Sherlock Holmes

Running time: 2 hours 14 minutes Starts at: 4:15 pm, 5:15 pm, 7:10 pm

The film lasts for 2 hours 14 minutes.



Plan a schedule for Lynn's visit to the cinema.

Schedule	Time
Bus leaves Baston	
Bus arrives Peterborough	
Film starts	
Bus leaves Peterborough	
Bus arrives Baston	

(Total for Question 3 is 5 marks)















*7 The table shows information about the number of Year 7 pupils absent from Keith's school last week.

	Monday	Tuesday	Wednesday	Thursday	Friday
Boys	8	11	12	14	13
Girls	10	9	12	13	11

Keith wants to compare this information. On the grid, draw a suitable diagram or chart.



(Total for Question 7 is 4 marks)







9	Ouzma wants to find out the method of transport people use to travel to a shopping centre.
	Design a suitable data collection sheet she could use to collect this information.
	(Total for Question 9 is 3 marks)
_	(Total for Question 9 is 3 marks)
	(Total for Question 9 is 3 marks)
	(Total for Question 9 is 3 marks)
	(Total for Question 9 is 3 marks)
	(Total for Question 9 is 3 marks)
	(Total for Question 9 is 3 marks)
	(Total for Question 9 is 3 marks)
	(Total for Question 9 is 3 marks)
	(Total for Question 9 is 3 marks)
	(Total for Question 9 is 3 marks)
	(Total for Question 9 is 3 marks)
	(Total for Question 9 is 3 marks)
	(Total for Question 9 is 3 marks)
	(Total for Question 9 is 3 marks)



Number of goals	Frequency
0	4
1	5
2	4
3	7
4	4

10 The table gives information about the number of goals scored by a football team in each match last season.

(a) Write down the modal number of goals scored.

(b) Work out the total number of goals scored by the team last season.

(2)

(1)







*11 Mr and Mrs Jones are planning a holiday to the Majestic Hotel in the Cape Verde Islands.

Departures	Price per adult		
	7 nights	14 nights	
1 Jan – 8 Jan	£ 694	£ 825	
9 Jan – 28 Jan	£ 679	£ 804	
29 Jan – 5 Feb	£ 687	£ 815	
6 Feb – 18 Feb	£ 769	£ 835	
19 Feb – 8 Mar	£ 714	£ 817	
9 Mar – 31 Mar	£ 685	£ 805	
1 April – 9 April	£ 788	£ 862	
10 April – 30 April	£ 748	£ 802	

The table gives information about the prices of holidays to the Majestic Hotel.

Mr and Mrs Jones are thinking about going on holiday

on 20 February for 7 nights or on 10 April for 14 nights.

Mr and Mrs Jones have 2 children.

Compare the costs of these two holidays for the Jones family.

(Total for Question 11 is 5 marks)



	rate of each of 15 people. in a stem and leaf diagram		
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7 Ke 5 8	y: 8 means 58 beats per minute
(a) Find the median he	eart rate.		
			beats per minute (1)
(b) Work out the range	e of the heart rates.		
			beats per minute (2)
Zoe then asked the 15 Zoe recorded the heart	people to walk up some sta rates again.	urs.	
She used the results to	work out the median and t	he range.	
	Median	78	
	Range	37	
	rates of the people before t es after they walked up the		up the stairs
			(2)
		(Total	l for Question 12 is 5 marks)



13 120 children went on a school activities day. Some children went bowling. Some children went to the cinema. The rest of the children went skating.

66 of these children were girls.28 of the 66 girls went bowling.36 children went to the cinema.20 of the children who went to the cinema were girls.

15 boys went skating.

Work out the number of children who went bowling.

(Total for Question 13 is 4 marks)







BLANK PAGE

