

Please write clearly in block capit	S.	
Centre number	Candidate number	-
Surname		
Forename(s)		
Candidate signature		

FSMQ USING DATA Level 1

Monday 16 May 2016

Afternoon

Time allowed: 1 hour

Materials

For this paper you must have:

- a clean copy of the Data Sheet (enclosed)
- a calculator
- mathematical instruments.



Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Answer all questions.
- You must answer each question in the space provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work that you do not want to be marked.
- You may **not** refer to the copy of the Data Sheet that was available prior to this examination.
 A clean copy is enclosed for your use.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 40.
- You are expected to use a calculator where appropriate.

Advice

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



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Section A

Answer all questions.

Answer each question in the space provided for that question.

[1 mark]
%
ne skill is more than [2 marks]
who can sew on a tag. [2 marks]



Section B

Answer all questions.

Answer each question in the space provided for that question.

Use Kindle books on page 3 of the Data Sheet.

(a)	Which two books in the top 10 have been in the Top 100 for the fewest day	s? [1 mark]
	Answer	
(b)		0 books.
	Tou must snow your working.	[2 marks]
	Answer	
(c)	He has a £10 voucher. Is this enough to buy one copy of each book?	2015.
	roa mast onow your working.	[3 marks]
	Answer	
(d)	Work out the mean cost of the books that were the top 5 Kindle books on	
	5 January 2015. Give your answer to the hearest penny.	[3 marks]
	Answer	
	(b)	Answer Answer Answer Answer Co Tom wants to read the books that were the top 5 Kindle books on 5 January He has a £10 voucher. Is this enough to buy one copy of each book? You must show your working. Answer Answer Answer Answer Answer Answer Answer Answer Answer Solve your answer to the nearest penny.

Turn over ▶



3 (a) Lucy puts some of the information into a spreadsheet. She has not formatted cell D4 correctly to show an amount of money.

Explain how you can tell.

[1 mark]

	Α	В	С	D
1	Author	Title	Number of days in Top 100	Cost (£)
2	Nadine Dorries	Hide Her Name	29	0.99
3	Rachel Abbott	Sleep Tight	193	0.99
4	Adele Parks	The State We're In	65	3
5	Mark Billingham	Sleepyhead	20	3.95
6	David Mitchell	Thinking About It Only Makes It Worse	12	0.99
7	Michael Connelly	The Black Echo	12	4.31
8	Gillian Flynn	Gone Girl	744	1.26
9	Karen Joy Fowler	We Are Completely Beside Ourselves	172	1.59
10	Neil Gaiman	Stardust	15	4.31
11	Stieg Larsson	The Girl With The Dragon Tattoo	878	3.99

3 (b) Which of these is a correct formula for finding the mean cost of the books in the top 10? Tick (✓) your answer.

[1 mark]

=mean(D1:D11)	
=mean(D2:D11)	
=mean(C1:C11)	
=mean(C2:C11)	

2

3

4	(a)	What is the probability that a book from the top 10, chosen at random, costs more than £3.95?	
		Give your answer as a decimal.	[1 mark]
		Answer	
4	(b)	What is the probability that a book from the top 10, chosen at random, costs less than £1.50?	
		Give your answer as a fraction in its simplest form.	[2 marks]
		Answer	

Turn over for the next question

Turn over ▶



Section C

Answer all questions.

Answer each question in the space provided for that question.

Use Cereal and breakfast bars on page 2 of the Data Sheet.

5	(a)	Work out the median total weight of the bars.	[3 marks]
		Answer	9
5	(b)	Complete the table to show the percentage of each bar that is sugar	

5 (b) Complete the table to show the percentage of each bar that is sugar. Give each answer correct to one decimal place.

[4 marks]

Bar	Weight of bar (g)	Weight of sugar per bar (g)	Percentage of bar that is sugar
Alpen Light, Apple and Sultana	19	4.7	
Cadbury Brunch, Raisin	32	13.0	
Eat Natural, Brazil and Sultana	50	19.4	
Go Ahead, Apple Bake	35	12.4	
Kellogg's Nutri-Grain, Strawberry	37	12.0	
Trek, Berry Burst	55	24.5	
L	ı		1



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5	(c)) Which bar contains the highest percentage of sugar?	
		Answer	
5	(d)	Name all the bars where more than $\frac{2}{5}$ of their total weight is sugar.	[2 marks]
		Answer	

Turn over for the next question

Turn over ▶



Section D

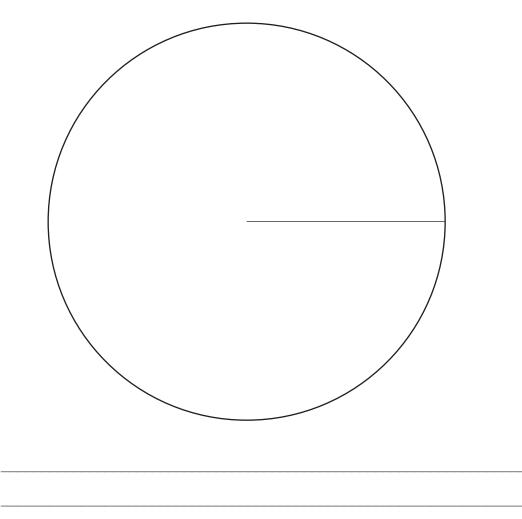
Answer all questions.

Answer each question in the space provided for that question.

Use Cakes on page 3 of the Data Sheet.

6 (a) Draw a pie chart to show the number of each type of cake that Mandy made yesterday.

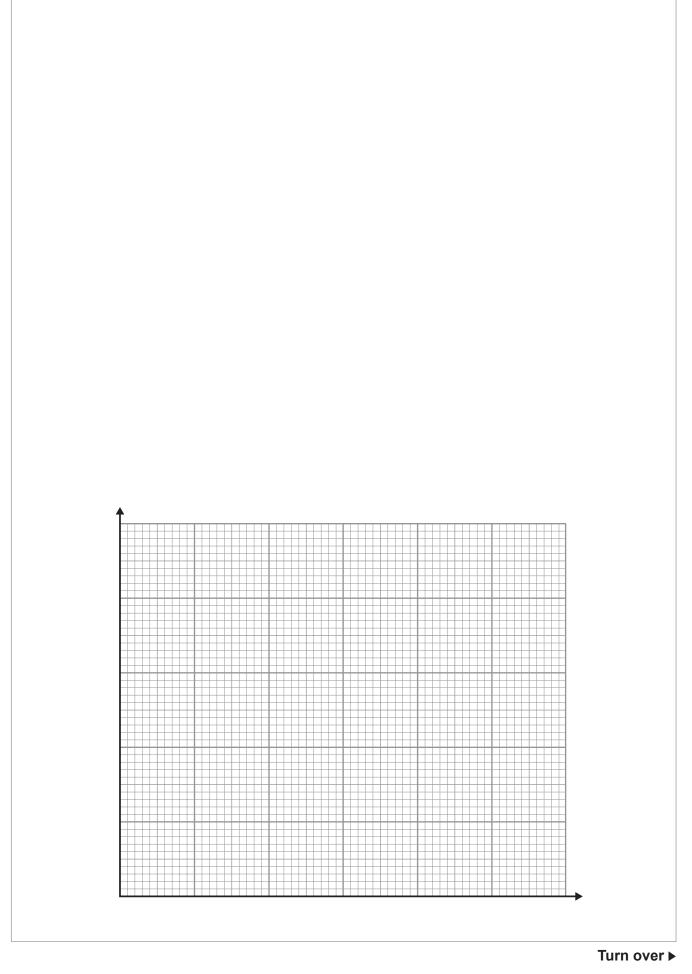
[5 marks]



6 (b) Draw a **different** chart or diagram to show the number of each type of cake that Mandy made yesterday. You may use the blank space or the graph paper on the page opposite.

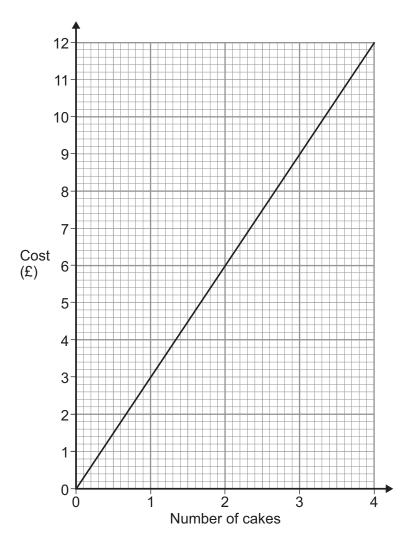
[4 marks]







6 (c) The graph shows how much Mandy charges for her chocolate cakes.



Does the graph show direct proportion? Tick (\checkmark) your answer.

[1 mark]

Yes	
No	

Give a reason for your answer.

10

7 Here is part of a bus timetable.

Blackburn	1036	1136	1236	1336	1436
Hospital	1047	1147	1247	1347	1447
Belthorn	1055	1155	1255	1355	1455
Haslingden	1107	1207	1307	1407	1507
Helmshore	1111	1211	1311	1411	1511
Rawtenstall	1120	1220	1320	1420	1520

Mandy lives in Belthorn. She is taking some of her cakes to Helmshore. She wants to arrive before 12:30

Write down the time of the latest bus she can catch from Belthorn.

You may assume that all buses depart and arrive on time.

[1	mar	k'
- N		-

Answer	

1

END OF QUESTIONS



There are no questions printed on this page

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