Please write clearly ir	ו block capitals.		
Centre number		Candidate number	
Surname			
Forename(s)			
Candidate signature			_)

FSMQ FINANCIAL CALCULATIONS Level 2

Thursday 26 May 2016

Morning

Time allowed: 1 hour 15 minutes

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 50.
- You are expected to use a calculator where appropriate.

Advice

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









		Section A	
		Answer all questions.	
		Answer each question in the space provided for that question.	
		Use Jeans on page 2 of the Data Sheet.	
1		Arthur buys 510 pairs of jeans for £5600	
		He sells $\frac{2}{3}$ of the pairs of jeans at £24 a pair.	
		Arthur then reduces the price to £15 a pair. He sells 80 pairs at this reduced price. A market trader buys the rest of the pairs of jeans from Arthur for £500	
1	(a)	How much does Arthur receive in total?	[5 marks]
		Answer £	
1	(b)	Find the percentage profit which Arthur makes.	[3 marks]
		Answer	



		Section B	
		Answer all questions.	
		Answer each question in the space provided for that question.	
		Use Spanish holiday on page 2 of the Data Sheet.	
2	(a)	One evening, Jack and Lorna go out for dinner. The price of their dinner is €32 each . A service charge of 15% is added to the price. Work out the total cost of the dinner for the couple.	[3 marks]
		Answer €	
2	(b)	On another evening, they pay a total of €84 for their dinner. This includes a service charge of 12% How much is the service charge?	
			[3 marks]
		Answer €	



[3 marks]

2 (c) Jack and Lorna pay a total of €180 for a coach tour to see the local area. The exchange rate is €1.28 to £1

How much is €180 in pounds?

Answer £_____

Turn over for the next question



Turn over ►

Section C

Answer all questions.

Answer each question in the space provided for that question.

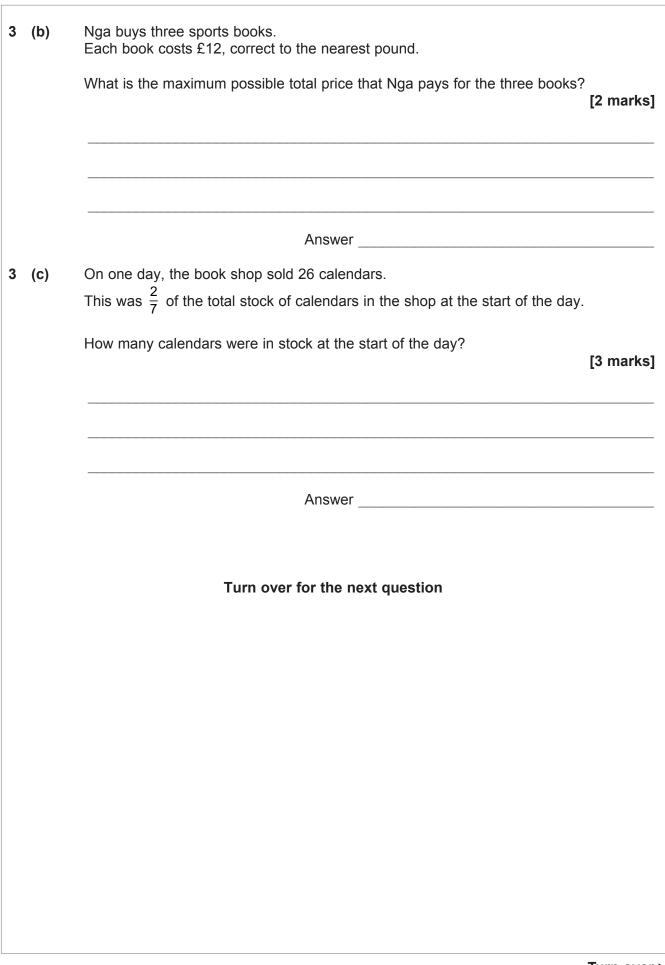
Use **Books** on page 2 of the Data Sheet.

3 (a)

	A	В	С	D
1	Pack	Recommended retail price (£)	Sale price (£)	Sale price as a percentage of recommended retail price
2	Mr. Men & Little Miss All New Story Collection	104	25	
3	Diary of a Wimpy Kid Collection	47.99	8.99	
4	Alice Thomas Ellis Set	22.99	4.99	
5	The Top Gear Guide To Britain	14.99	3.99	

Complete column D of the spreadsheet. Give the percentages to the nearest integer.

[4 marks]



7



Turn over ►

		Section D		
	Answer all questions.			
		Answer each question in the space provided for that question.		
		Use Sway Credit Finance on page 3 of the Data Sheet.		
4		Liu wants to borrow £4000 to buy a car. She decides to repay the loan over 24 months.		
4	(a)	What monthly repayment will Liu make? Circle your answer.		
		£372.62 £204.73 £179.09 £166.67 [1 ma	rk]	
4	(b)	By finding the total repayments that Liu will make to repay the loan, calculate the tota interest that she will be charged for borrowing this money. [3 mark		
4	(c)	Answer Express the total interest that Liu will be charged for borrowing this money as a percentage of the amount borrowed. [2 mark]		
		Answer		



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		Section E
		Answer all questions.
		Answer each question in the space provided for that question.
		Use Taxation 2015–2016 on page 4 of the Data Sheet.
5		In the tax year 2015–2016, Molly had a tax-free allowance of £10 600 and earned £4629 per month.
5	(a)	Calculate Molly's taxable income. [3 marks]
		Answer
5	(b)	Calculate the total amount of income tax which Molly paid in the year. [5 marks]
		Answer

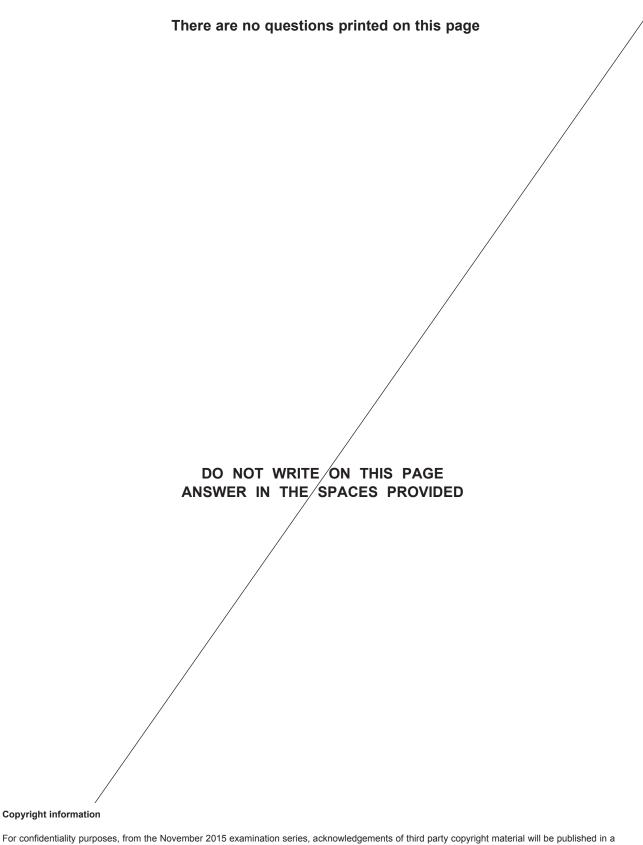


Turn over ►

6	In the tax year 2015–2016, Dmitry earned £397 per week. Dmitry was not contracted out for National Insurance contributions.		
	Calculate the amount which Dmitry paid per week in National Insurance contributions. [4 marks]		
	Answer		

	Section F
	Answer all questions.
	Answer each question in the space provided for that question.
7	A shopkeeper normally sells ladies' dresses at a price which includes a mark-up of 65% for profit. In a sale, the shopkeeper reduces all her prices by $\frac{1}{3}$
	What is the percentage profit the shopkeeper makes when a dress is sold in the sale? [3 marks]
	Answer
8	A savings account pays interest at a fixed rate of 0.26% per month.
	After <i>n</i> years, the amount of money, $\pounds P$, in the account from an investment of $\pounds S$ is given by
	$P = S \times 1.0026^{12n}$
	Ethan invests £4500 for 1 year.
	Use the formula to calculate the total amount of money which Ethan will have at the
	end of the year. [3 marks]
	Answer
	END OF QUESTIONS





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