

Please write clearly in block capitals.

Centre number

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Candidate number

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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.



There are no questions printed on this page

**DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED**



Section AAnswer **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 _____ %

8

Turn over ►

Section BAnswer **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 € _____



- 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?

[3 marks]

Answer £ _____

9

Turn over for the next question

Turn over ►



Section CAnswer **all** questions.

Answer each question in the space provided for that question.

Use **Books** on page 2 of the Data Sheet.**3 (a)**

	A	B	C	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]

- 3 (b)** Nga buys three sports books.
Each book costs £12, correct to the nearest pound.

What is the maximum possible total price that Nga pays for the three books?

[2 marks]

Answer _____

- 3 (c)** On one day, the book shop sold 26 calendars.
This was $\frac{2}{7}$ of the total stock of calendars in the shop at the start of the day.

How many calendars were in stock at the start of the day?

[3 marks]

Answer _____

9

Turn over for the next question

Turn over ►



Section DAnswer **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 mark]

4 (b) By finding the total repayments that Liu will make to repay the loan, calculate the total interest that she will be charged for borrowing this money.

[3 marks]

Answer _____

4 (c) Express the total interest that Liu will be charged for borrowing this money as a percentage of the amount borrowed.

[2 marks]

Answer _____



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 _____

8

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 _____

4



Section FAnswer **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 _____

3

- 8** A savings account pays interest at a fixed rate of 0.26% per month.

After n 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 $\pounds 4500$ 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 _____

3

END OF QUESTIONS

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