

Centre No.						Paper Reference						Surname <i>Correction</i>	Initial(s)	
Candidate No.						1	3	8	0	/	3	H	Signature <i>M. Semar</i>	

Paper Reference(s)

**1380/3H**

**Edexcel GCSE**

**Mathematics (Linear) – 1380**

**Paper 3 (Non-Calculator)**

**Percentages**

Past Paper Questions

Arranged by Topic

Examiner's use only

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Team Leader's use only

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**Materials required for examination**

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser.  
Tracing paper may be used.

**Items included with question papers**

Nil

**Instructions to Candidates**

In the boxes above, write your centre number, candidate number, your surname, initials and signature. Check that you have the correct question paper. Answer ALL the questions. Write your answers in the spaces provided in this question paper. **You must NOT write on the formulae page.** Anything you write on the formulae page will gain NO credit. If you need more space to complete your answer to any question, use additional answer sheets.

**Information for Candidates**

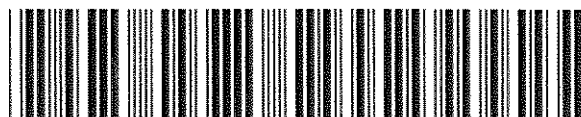
The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). There are 26 questions in this question paper. The total mark for this paper is 100. There are 24 pages in this question paper. Any blank pages are indicated. **Calculators must not be used.**

**Advice to Candidates**

Show all stages in any calculations. Work steadily through the paper. Do not spend too long on one question. If you cannot answer a question, leave it and attempt the next one. Return at the end to those you have left out.

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Compiled by Peter Bland




*Turn over*

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1. A tin of cat food costs 40p.  
A shop has a special offer on the cat food.

**Special offer**

Pay for 2 tins and get 1 tin free



Julie wants 12 tins of cat food.

- (a) Work out how much she pays.

4 x ( 3 tins cost 80p  
12 tins cost 80 x 4 = 320p

$$\begin{array}{r} \text{£ } 3.20 \\ \hline \end{array} \quad (3)$$

9 of the 12 tins are tuna.

- (b) Write 9 out of 12 as a percentage.

$$\frac{9}{12} \times 100 = \frac{3}{4} \times 100$$

$$\begin{array}{r} 75 \\ \hline \end{array} \% \quad (2)$$

The normal price of a cat basket is £20  
In a sale, the price of the cat basket is reduced by 15%.

- (c) Work out the sale price of the cat basket.

Normal price = Sale price + Reduction  
Reduction = 15% ∴ Sale price = 85%  
Normal price = 100%  
Sale price = 85% of £20  
$$= \frac{85}{100} \times 20 = \frac{85}{5} = 17$$

$$\begin{array}{r} \text{£ } 17 \\ \hline \end{array} \quad (3)$$

(Total 8 marks)

2. A school shop sells four flavours of crisps.

Sandra kept a record of the sales of crisps in one week. The table gives some information about the sales.

Flavour	Percentage sales
Plain	25%
Salt & Vinegar	40%
Cheese & Onion	20%
Beef	15%

(a) Complete the table.

(1)

(b) Which flavour of crisp had the highest percentage sales?

Salt & Vinegar

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(1)

(c) Write 25% as a fraction in its simplest form.

$$\frac{25}{100} = \frac{1}{4}$$

$\xrightarrow{\div 25}$   
 $\xrightarrow{\div 25}$

$$\frac{1}{4}$$


---

(2)

The school shop sold 200 packets of crisps that week.

(d) How many packets of Cheese & Onion crisps were sold during that week?

20% of 200

$$\frac{20}{100} \times 200 = 40$$

40

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(2)

(Total 6 marks)

Q2

3. The table shows the percentage of each type of book in a library.

Type of book	Percentage
Children's	24%
General	42%
Mystery	13%
Romance	15%
Science fiction	2%
Thriller	4%

(a) What type of book has the smallest percentage?

Science fiction  
(1)

(b) Write 13% as a decimal.

$$\frac{13}{100} = 13 \div 100 = 0.13$$

(1)

(c) Write 24% as a fraction.  
Give your answer in its simplest form.

$$\frac{24}{100} = \frac{12}{50} = \frac{6}{25}$$

(2)

There are 3000 books in the library.

(d) Work out 15% of 3000

$$\frac{15}{100} \times 3000 = 15 \times 30 = 15 \times 3 \times 10$$

450  
(2)

(Total 6 marks)

Q3

4. Hajra's weekly pay this year is £240  
This is 20% more than her weekly pay last year.

Bill says 'This means Hajra's weekly pay last year was £192'.

Bill is wrong.

- (a) Explain why.

Bill taken 20% of £240 which is wrong.

(1)

- (b) Work out Hajra's weekly pay last year.

This year's pay = 120% of last year's pay.  $(120\% = \frac{120}{100} = 1.2)$

This year's pay = 1.2 x last year's pay.

last year's pay = This year's pay  $\div$  1.2

$$= 240 \div 1.2$$

$$= 2400 \div 12$$

$$\pounds \frac{2400}{12}$$

(2)

Q4

(Total 3 marks)

5. A hotel has 56 guests.  
35 of the guests are male.

$$\frac{35}{56} = \frac{7}{8}$$

(÷5)

(a) Work out 35 out of 56 as a percentage.

$$\frac{35}{56} \times 100 = \frac{7}{8} \times 100 = \frac{7}{4 \times 2} \times 100 = \frac{25 \times 7}{2}$$

$$\frac{1}{8} \text{ is } 12.5\% \quad \therefore \frac{7}{8} \rightarrow 12.5 \times 7 = 87.5\%$$

(2)

40% of the 35 male guests wear glasses.

(b) Write the number of male guests who wear glasses as a fraction of the 56 guests.  
Give your answer in its simplest form.

Wear glasses:  $\frac{40}{100} \times 35 = \frac{2}{5} \times 35 = 14 \text{ males wear glasses}$

Answer:  $\frac{14}{56} = \frac{2 \times 7}{7 \times 8} = \frac{2}{8} = \frac{1}{4}$

$\frac{1}{4}$  of 56 guests

Wear glasses.  
(Total 6 marks)

6. In a sale the normal price of a book is reduced by 10%.  
The sale price of the book is £4.86

Calculate the normal price of the book.

$$\text{Normal Price} = \text{Sale Price} + \text{Reduction}$$

$$100\% = ? + 10\%$$

$$? = 90\%$$

$$90\% \text{ of Normal price} = \text{Sale price}$$

$$0.9 \times \text{Normal price} = 4.86$$

$$\text{Normal price} = 4.86 \div 0.9$$

$$= 48.6 \div 9$$

$$= 5.40$$

$$\begin{array}{r} 5.4 \\ 9 \overline{) 48.6} \end{array}$$

£ 5.40

Q6

(Total 3 marks)

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