

Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

Functional Skills Level 1

MATHEMATICS

(8361)

Paper 2 Calculator Paper

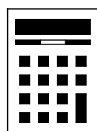
Specimen paper

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a calculator
- mathematical instruments.



Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Answer **all** questions.
- You must answer the questions in the spaces 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 you do not want to be marked.
- State the units of your answer where appropriate.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 60.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.
- If your calculator does not have a π button, take the value of π to be 3.142

Advice

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

Section A*Do not write
outside the
box*Answer **all** questions in the spaces provided.

- 1 Circle the number that is 5 **more** than -1

[1 mark] -6 -4 4 6

- 2 Write $\frac{7}{20}$ as a percentage.

[1 mark]

Answer _____ %

- 3 Here is a rectangle.

9 cm

4 cm

Not drawn
accurately

Work out the perimeter.

Circle your answer.

[1 mark]

13 cm

26 cm

36 cm

72 cm

4 Work out the value of 38^2

[1 mark]

Answer _____

5 List these types of angle in order, with the smallest first.

reflex obtuse acute right angle

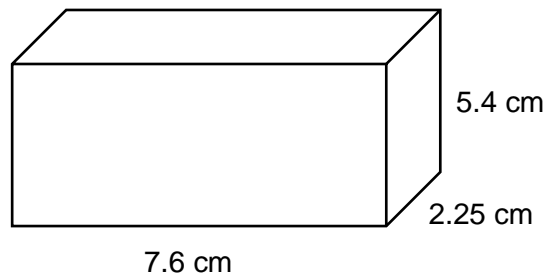
[1 mark]

Smallest _____

Largest _____

Turn over for the next question

- 6 A cuboid measures 7.6 cm by 2.25 cm by 5.4 cm



Work out the volume of the cuboid.

[2 marks]

Answer _____ cm^3

- 7 Here are 15 values.

13 40 22 14 19 30 36 33

8 37 38 28 3 17 32

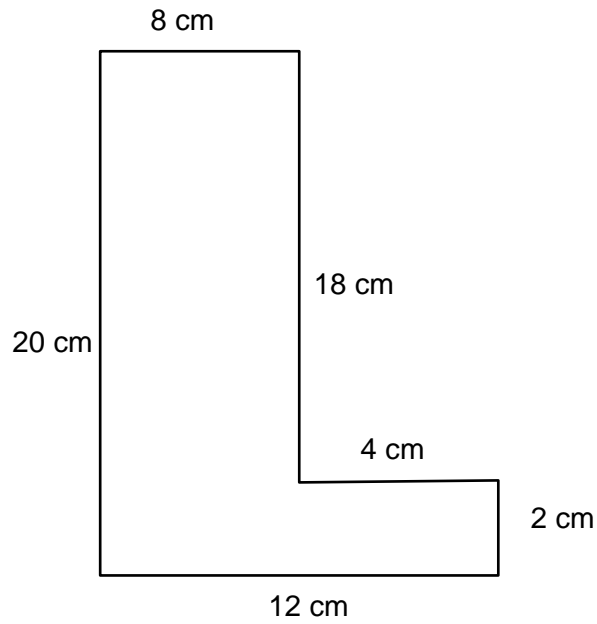
Complete the frequency column of the table.

[2 marks]

Value	Frequency
1 – 10	2
11 – 20	
21 – 30	
31 – 40	

8

Here is an L-shape.

Not drawn
accurately

Work out the area of the L-shape.
State the units of your answer.

[3 marks]

Answer _____

Section B

Answer **all** questions in the spaces provided.

9 Restaurant

Rory works for a restaurant.

One week, the restaurant runs a special offer from Wednesday to Saturday.

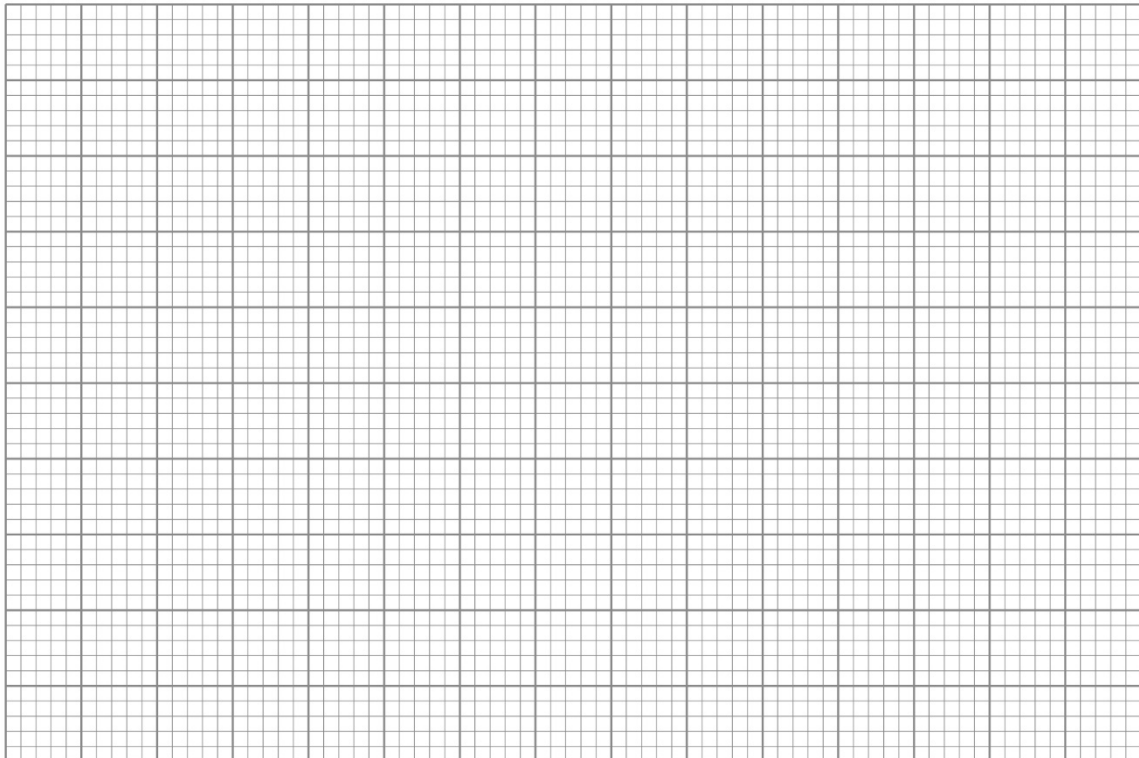
The table shows the income from sales of drinks for the four days.

	Income from drinks
Wednesday	£800
Thursday	£1000
Friday	£1400
Saturday	£700

9 (a) On the grid below, draw a suitable chart showing the income from drinks.

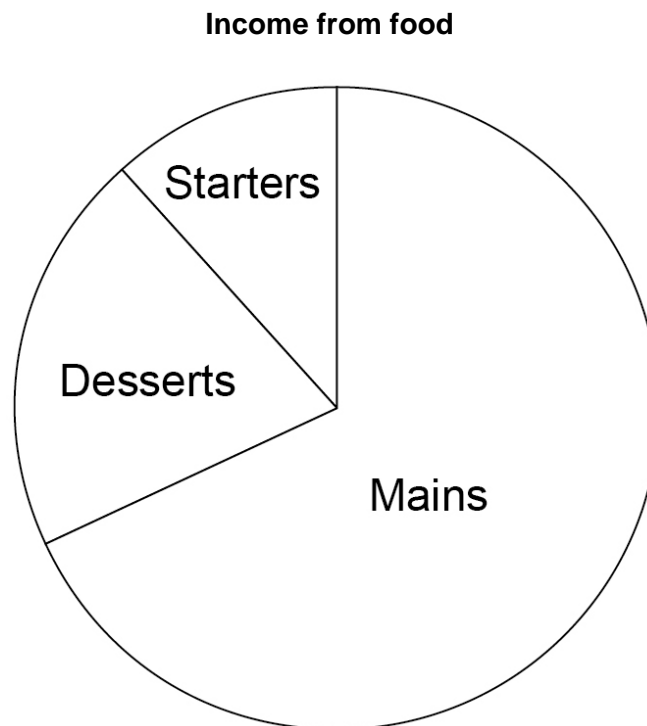
[4 marks]

Income from Drinks



- 9 (c) The income from food comes from starters, mains and desserts.

The pie chart represents the income from food during the special offer.



In total, Rory wants $\frac{1}{3}$ of the income from food to come from starters and desserts.

Has this happened during the special offer?

You **must** show your working.

[3 marks]

- 9 (d)** In the next week, the total income at the restaurant is £14 800
The table shows the costs to run the restaurant that week.

	Amount (£)
Wages of chefs	210 hours at £9.35 per hour
Wages of waiters	570 hours at £7.90 per hour
Other costs	£3700

Work out the profit for the week.

[5 marks]

Answer £ _____

10 Holiday to Spain

Jo and Steve are planning a holiday to Spain during October.

- 10 (a)** Jo and Steve look at information about two towns they might go to.
The tables show the number of hours of sunlight in October for five years.

Town A

2014	2015	2016	2017	2018
199	219	198	195	214

Town B

2014	2015	2016	2017	2018
197	207	204	196	203

Jo says,

“We want to go to the town with the higher **average** number of hours of sunlight.”

Use the information in the tables to give one reason why they might choose Town A.

[3 marks]

The tables show the price of flights each Friday and Saturday during October.

Do not write
outside the
box

UK to Spain	
Friday	Saturday
Oct 4 £82	Oct 5 £99
Oct 11 £72	Oct 12 £79
Oct 18 £102	Oct 19 £99
Oct 25 £65	Oct 26 £65

Spain to UK	
Friday	Saturday
Oct 4 £74	Oct 5 £86
Oct 11 £76	Oct 12 £79
Oct 18 £82	Oct 19 £92
Oct 25 £99	Oct 26 £109

- 10 (b)** Jo and Steve decide to
fly to Spain on a Friday
fly back to the UK on the next Friday.

What is the cheapest possible total cost for the two flights?
Give the date of **each** flight and the **total cost** for Jo and Steve.

[4 marks]

- 10 (c)** You pay £17.99 for luggage weighing up to 15 kg
You pay an extra amount for each additional kilogram of luggage.

Jo's luggage weighs 19 kg

She pays £23.99

Steve's luggage weighs 22 kg

How much does he pay?

[4 marks]

Answer £ _____

11 Trip to a concert

Ian is going to a concert.

He decides to drive to the concert and back.

11 (a) The concert starts at 7.15 pm

Ian will take $1\frac{1}{2}$ hours to drive to the concert.

He wants to arrive at least 10 minutes before the concert starts.

What is the **latest** time he should leave home?

[3 marks]

Answer _____

Question 11 continues on the next page

11 (c) Here is the price list for food and drink at the concert.

Food		Drink	
Burger	£4.45	Coffee	£2.95
Hot dog	£3.95	Tea	£1.95
Pizza	£5.45	Cola	£2.35
Crisps	90p		

Ian has a student discount card.

He gets 15% discount on the food and drink.

Ian has £6.20

Does he have enough money to buy a hot dog, crisps and a cola?

You **must** show your working.

[4 marks]

Turn over for the next question

12 Personal finance

12 (a) You can use these steps to work out the amount of income tax you pay each **month**.

Step 1 Work out monthly salary \div 12

Step 2 Work out answer to **Step 1** \times 5

Cho has a salary of £24 000 per **year**.

Helen has a salary of £1720 per **month**.

How much **more** income tax does Cho pay than Helen each **month**?

[4 marks]

Answer £ _____

There are no questions printed on this page

*Do not write
outside the
box*

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ANSWER IN THE SPACES PROVIDED**

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Question 11b Image of fuel gauge ©istock.com/ChubarovY

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