

Write your name here

Surname	Other names
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Centre Number	Candidate Number									
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**Pearson Edexcel**  
**Level 1/Level 2 GCSE (9–1)**

# Mathematics

## Paper 2 (Calculator)

### Aiming for 4

### Foundation Tier

<b>Spring 2022 Practice Paper</b> <b>Time: 1 hour 30 minutes</b>	Paper Reference <h2 style="margin: 0;">1MA1/2F</h2>
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**You must have:** Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Total Marks

### Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You must **show all your working**.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may be used.**
- If your calculator does not have a  $\pi$  button, take the value of  $\pi$  to be 3.142 unless the question instructs otherwise.



### Information

- The total mark for this paper is 40. There are 17 questions.
- Questions have been arranged in an ascending order of mean difficulty, as found by all students in the November examinations.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*

### Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

**Answer ALL SEVENTEEN questions.**

**Write your answers in the spaces provided.**

**You must write down all the stages in your working.**

**1** Alec needs to work out the value of  $2 + 3 \times 4$

He writes

$$2 + 3 = 5 \text{ and } 5 \times 4 = 20, \text{ so } 2 + 3 \times 4 = 20$$

Alec is wrong.  
Explain why.

.....  
.....  
.....

**(Total for Question 1 is 1 mark)**

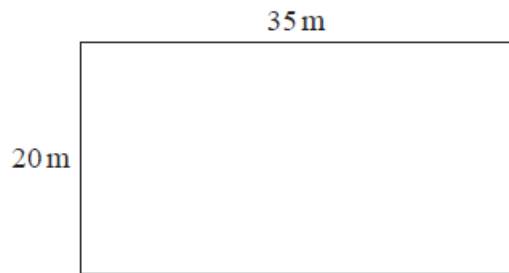
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**2** Write 0.37 as a fraction.

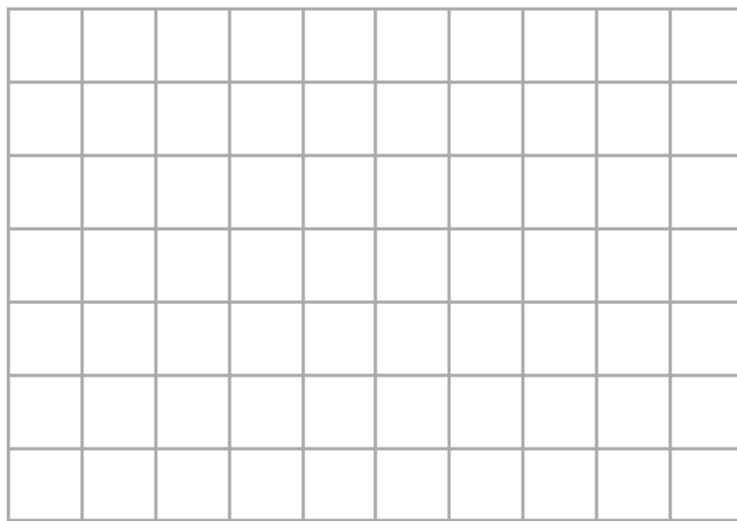
.....  
**(Total for Question 2 is 1 mark)**

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3 The diagram shows a rectangle.



On the centimetre grid below, draw an accurate scale drawing of this rectangle.  
Use a scale of 1 cm to represent 5 m.



**(Total for Question 3 is 2 marks)**

---

4 Here is a list of whole numbers from 21 to 30

21    22    23    24    25    26    27    28    29    30

(a) From the list, write down a square number.

.....  
**(1)**

(b) From the list, write down a multiple of 8

.....  
**(1)**

**(Total for Question 4 is 2 marks)**

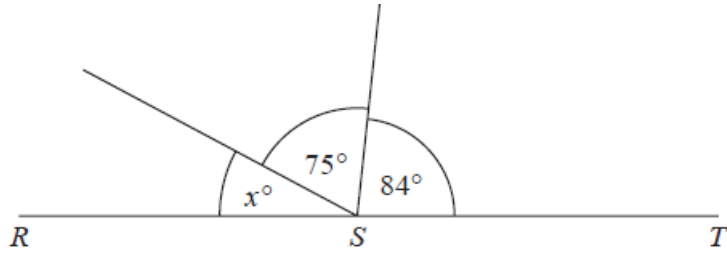
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- 5 Liz is watching a film at the cinema.  
The film started at 14 30  
The film is 105 minutes long.  
When the film ends, Liz takes 20 minutes to get to the bus stop.  
A bus leaves the bus stop at 16 45  
Does Liz get to the bus stop in time to get this bus?  
You must show all your working.

**(Total for Question 5 is 3 marks)**

---

6



$RST$  is a straight line.

(i) Work out the value of  $x$ .

.....  
(2)

(ii) Give a reason for your answer.

.....  
.....  
.....  
(1)

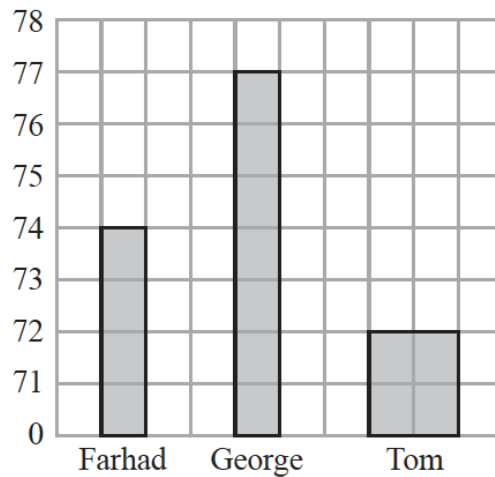
**(Total for Question 6 is 3 marks)**

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7 Farhad, George and Tom each did a test.  
Here are their marks for the test.

Farhad	74
George	77
Tom	72

George drew this bar chart to show the marks they got.  
The bar chart is **not** fully correct.

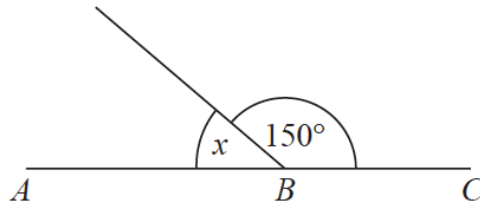


Write down **two** things that are wrong with George's bar chart.

- 1.....
- .....
- .....
- .....
- .....
- .....
- .....
- .....

**(Total for Question 7 is 2 marks)**

8



$ABC$  is a straight line.

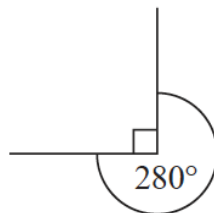
(a) (i) Work out the size of the angle marked  $x$ .

.....  
(1)

(ii) Give a reason for your answer.

.....  
.....  
.....  
(1)

The diagram below is wrong.



(b) Explain why.

.....  
.....  
.....  
(1)

**(Total for Question 8 is 3 marks)**

9 (a) Simplify  $m + m + m + m$

.....  
(1)

(b) Simplify  $12p \div 4$

.....  
(1)

**(Total for Question 9 is 2 marks)**

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10 Simplify  $3e - e + 4e$

.....  
**(Total for Question 10 is 1 mark)**

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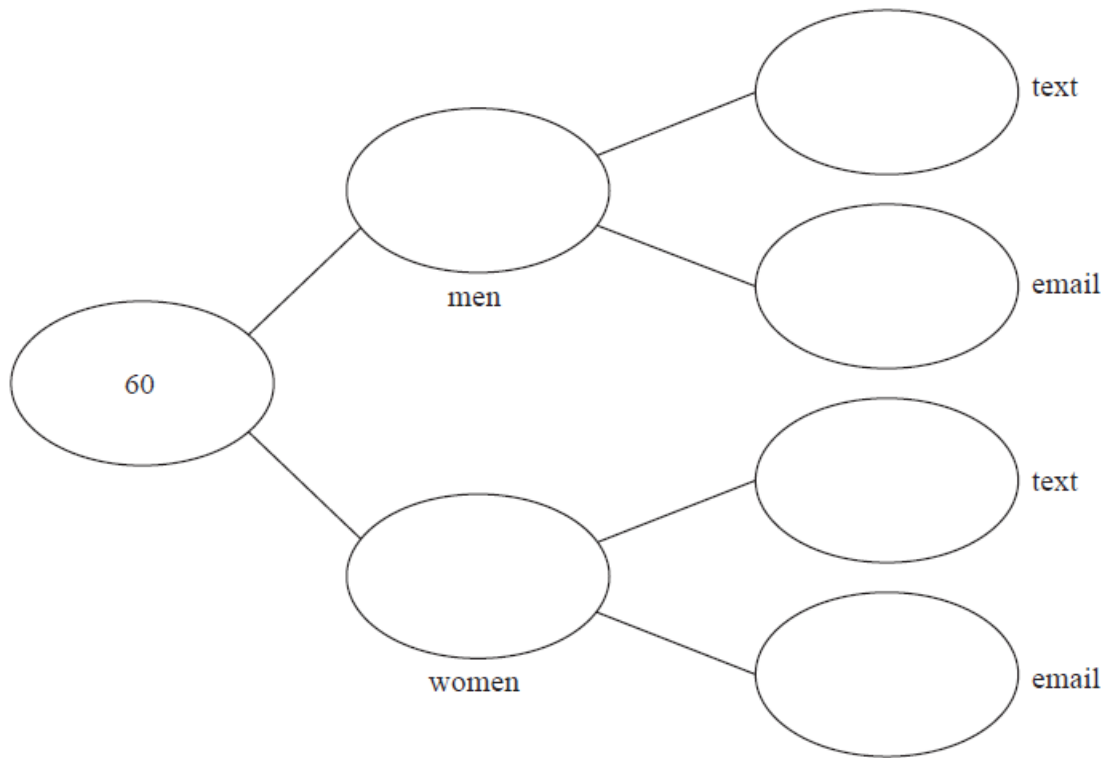
11 60 people are asked if they prefer to text or to email their friends.

38 of the people are women and the rest are men.

15 of the men prefer to email their friends.

60% of the people prefer to text their friends.

Complete the frequency tree for this information.



**(Total for Question 11 is 5 marks)**

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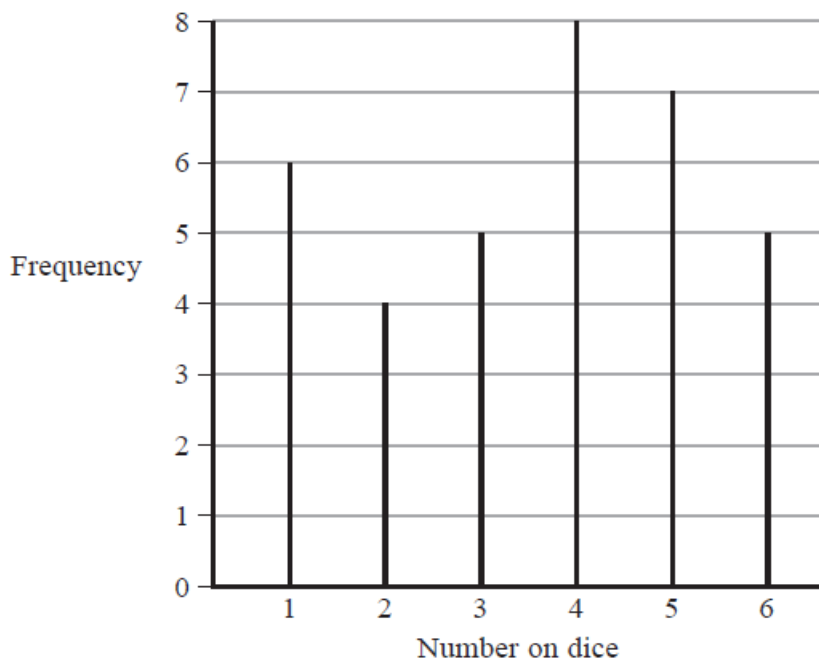
12 Write 29 381 correct to the nearest 1000

.....  
(Total for Question 12 is 1 mark)

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13 5 students throw a dice.  
They each throw the dice the same number of times.

The diagram gives information about the number of times the dice lands on each number.



Work out how many times each student throws the dice.

.....  
(Total for Question 13 is 3 marks)

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14 Here is a list of numbers.

3    4    9    18    27    30    36

From the numbers in the list, write down a cube number.

.....  
**(Total for Question 14 is 1 mark)**

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15 An exam has two papers, Paper 1 and Paper 2  
Paper 1 has 60 marks.  
Paper 2 has 90 marks.

The pass mark is  $\frac{2}{3}$  of the total number of marks.

Danielle gets 70% of the marks for Paper 1

How many of the marks for Paper 2 must Danielle get in order to get the pass mark?

.....  
**(Total for Question 15 is 4 marks)**

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16 (a) Simplify  $c^5 \div c^2$

.....  
(1)

(b) Simplify  $(d^4)^3$

.....  
(1)

**(Total for Question 16 is 2 marks)**

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17 (a) Find the Highest Common Factor (HCF) of 60 and 84

.....  
(2)

(b) Find the Lowest Common Multiple (LCM) of 24 and 40

.....  
(2)

**(Total for Question 17 is 4 marks)**

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**TOTAL FOR PAPER IS 40 MARKS**