

Write your name here	
Surname	Other names
Pearson Edexcel	Centre Number
Level 1/Level 2 GCSE (9-1)	Candidate Number
<h1 style="margin: 0;">Mathematics</h1> <h2 style="margin: 0;">Paper 1 (Non-Calculator)</h2> <p style="margin: 10px 0;">Achieving a Grade 3 Foundation Tier</p>	
Spring 2023 Practice Paper	Paper Reference
31 marks 30 minutes	1MA1/1F
<p>You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser.</p> <p>Tracing paper may be used.</p>	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 not be used.**



Information

- The total mark for this paper is 31. There are 12 questions.
- This paper assumes students have worked through the “Aiming for Grade 1 and Grade 2 papers” and as a result may have already seen a small number of these questions.
- All the questions are placed in ascending order of mean difficulty as found by students achieving Grade 3 in the Summer and November 2022 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 TWELVE questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

- 1** Work out an estimate for the value of 92×1.63
You must show all your working.

.....
(Total for Question 1 is 2 marks)

- 2** Elena spent 120 minutes at a sports centre.
She played badminton for 50 minutes.
She used the swimming pool for $\frac{1}{6}$ of the 120 minutes.
She used the gym for 20% of the 120 minutes.
She then spent the rest of the 120 minutes in the cafe.
Work out the total time, in minutes, that Elena spent in the cafe.

..... minutes
(Total for Question 2 is 4 marks)

3 (a) Work out $\frac{5}{12} + \frac{1}{6}$

..... (2)

(b) Work out $\frac{3}{10} \times \frac{5}{8}$

Give your answer as a fraction in its simplest form.

.....(2)

(Total for Question 3 is 4 marks)

4 Jenny drives from London to Swindon at an average speed of 54 miles per hour.

She drives for $1\frac{1}{2}$ hours.

Work out the distance from London to Swindon.

..... miles

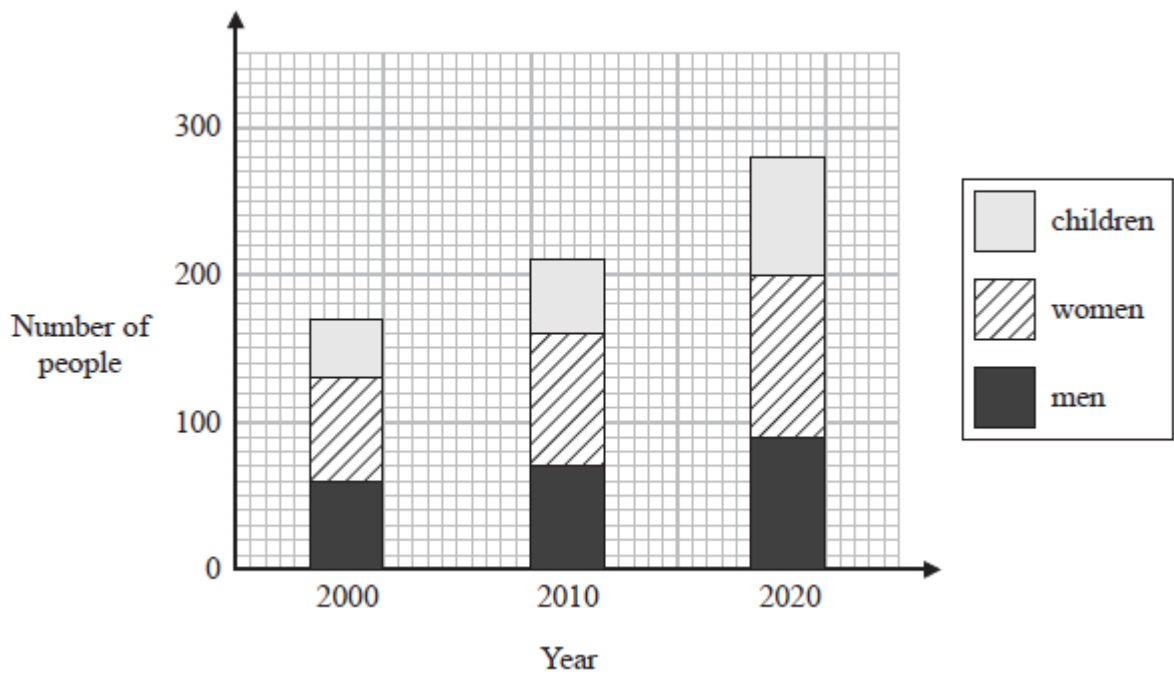
(Total for Question 4 is 2 marks)

5 Solve $3n + n = 24$

$n = \dots\dots\dots$

(Total for Question 5 is 2 marks)

6 The composite bar chart shows information about the number of people living in a village.



For the people living in the village in the year 2020

find the ratio of the number of children to the **total** number of men and women.

$\dots\dots\dots$

(Total for Question 6 is 2 marks)

7 Write 124 as a product of its prime factors.

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

8 Write 500 as a product of powers of its prime factors.

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

- 9 There are only blue counters, green counters, red counters and yellow counters in a bag. The table shows the number of blue counters in the bag.

Colour	blue	green	red	yellow
Number of counters	30			

There is a total of 100 counters in the bag. Ashin takes at random a counter from the bag.

- (a) Find the probability that the counter is **not** blue.

..... (2)

The ratio of the number of blue counters to the number of green counters is 2 : 3

- (b) Work out the number of green counters in the bag.

.....(2)

Bradley says,

“The number of red counters in the bag is the same as the number of yellow counters in the bag.”

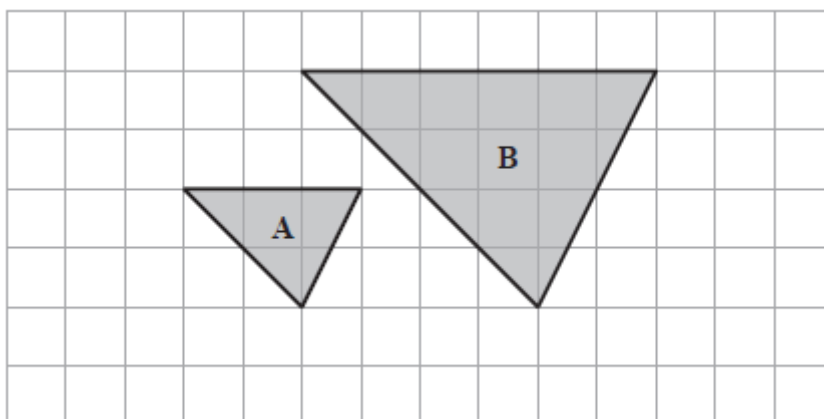
- (c) Can Bradley be correct? Give a reason for your answer.

.....

(1)

(Total for Question 9 is 5 marks)

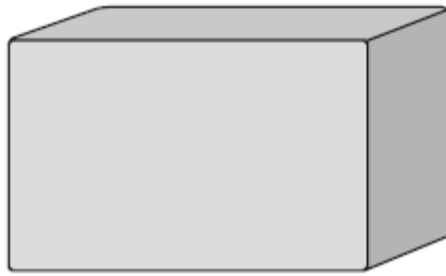
- 10 Here are two triangles on a grid.



Triangle **B** is an enlargement of triangle **A**. Write down the scale factor of the enlargement.

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

11



$$\text{pressure} = \frac{\text{force}}{\text{area}}$$

A storage tank exerts a force of 10 000 newtons on the ground.

The base of the tank in contact with the ground is a 4 m by 2 m rectangle.

Work out the pressure on the ground due to the tank.

..... newtons / m²

(Total for Question 11 is 2 marks)

12 Work out 0.004×0.32

.....

(Total for Question 12 is 2 marks)

TOTAL FOR PAPER IS 31 MARKS