Write your name here

| Surname | | Other names | |

Pearson Edexcel
Level 1/Level 2 GCSE (9–1)

Centre Number | | | | | Candidate Number | | | |

Mathematics
Paper 2 (Calculator)
Aiming for 4

Foundation Tier

Spring 2022 Practice Paper
Time: 1 hour 30 minutes

Paper Reference
1MA1/2F

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 π button, take the value of π to be 3.142 unless the question instructs otherwise.

Information

- The total mark for this paper is 40. There are 16 questions.
- Questions have been arranged in an ascending order of mean difficulty, as found by all students in the June 2019 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 SIXTEEN questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1   A baker has three bags of flour, **A**, **B** and **C**.

Bag **A** and bag **B** contain the same amount of flour.
Bag **C** contains 940 g of flour.

In the three bags, there is a total of 2500 g of flour.

Work out the amount of flour in bag **A**.

.... g

(Total for Question 1 is 3 marks)

2   Write 31% as a fraction.

....

(Total for Question 2 is 1 mark)

3   Write $\dfrac{1}{4}$ as a percentage.

....%

(Total for Question 3 is 1 mark)

4   This scale can be used to change between kilometres and miles.

```
miles
0          10          20          30          40          50
├────┬────┬────┬────┬────┬────┬────┬────┤
0    10   20   30   40   50   60   70   80
kilometres
```
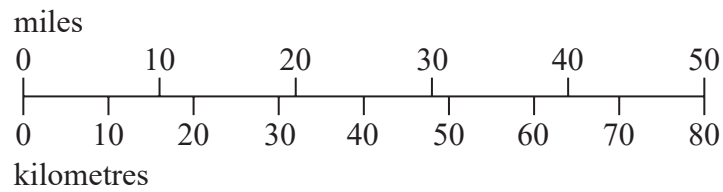
(*a*) Use the scale to change 40 kilometres to miles.

.... miles

(1)

Here is an approximate rule to change from kilometres to miles.

> Divide the distance in kilometres by 10 and then multiply by 6

(*b*) Use this approximate rule to change 40 kilometres to miles.

.... miles

(2)

(*c*) Compare your answer to part (*b*) with your answer to part (*a*).

....

....

....

(1)

(Total for Question 4 is 4 marks)

5 Write the following numbers in order of size.
Start with the smallest number.

$$1.02 \qquad 0.12 \qquad 1.20 \qquad 0.21$$

....

(Total for Question 5 is 1 mark)

---

6 (*a*) Solve $3m = 36$

$m = $ ....

(1)

(*b*) Solve $7 - x = 3$

$x = $ ....

(1)

(Total for Question 6 is 2 marks)

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7 Nazima uses this graph to find out how much money she is paid for the number of hours she has worked.
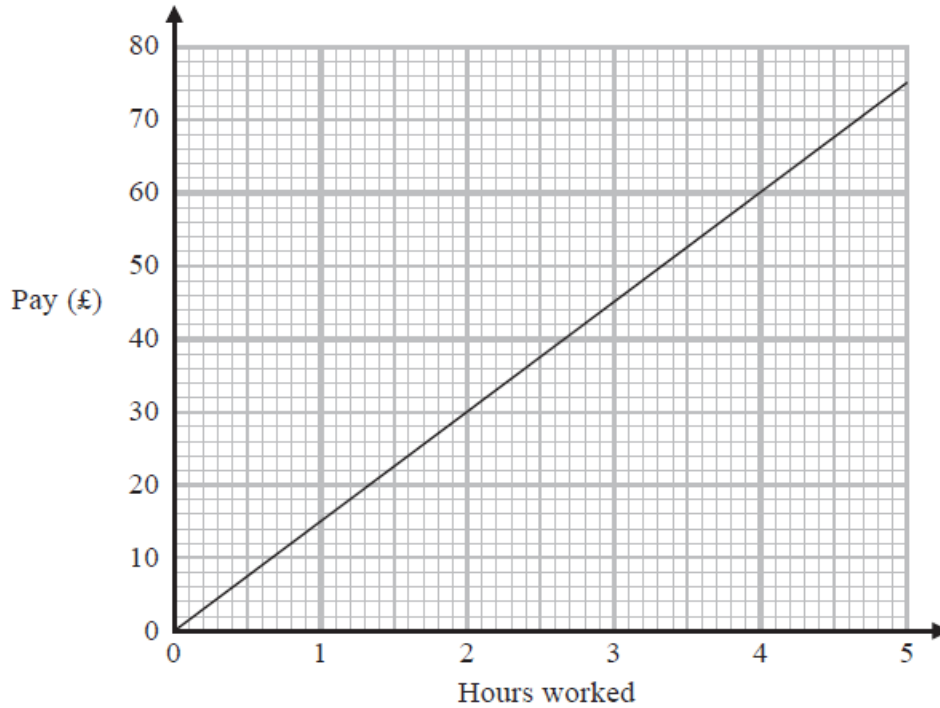
(*a*) How much money is Nazima paid for each hour she works?

£...

(1)

Last week Nazima worked for 36 hours.

(*b*) How much money was Nazima paid?

£...

(2)

(Total for Question 7 is 3 marks)

8   Write 17 as a fraction of 30

....

(Total for Question 8 is 1 mark)

9   (*a*) Work out $\sqrt{\dfrac{13.82}{4.06}}$

Write down all the figures on your calculator display.

....

(2)

(*b*) Give your answer to part (*a*) correct to 2 decimal places.

....

(1)

(Total for Question 9 is 3 marks)

10 Reflect shape **A** in the mirror line.

mirror line
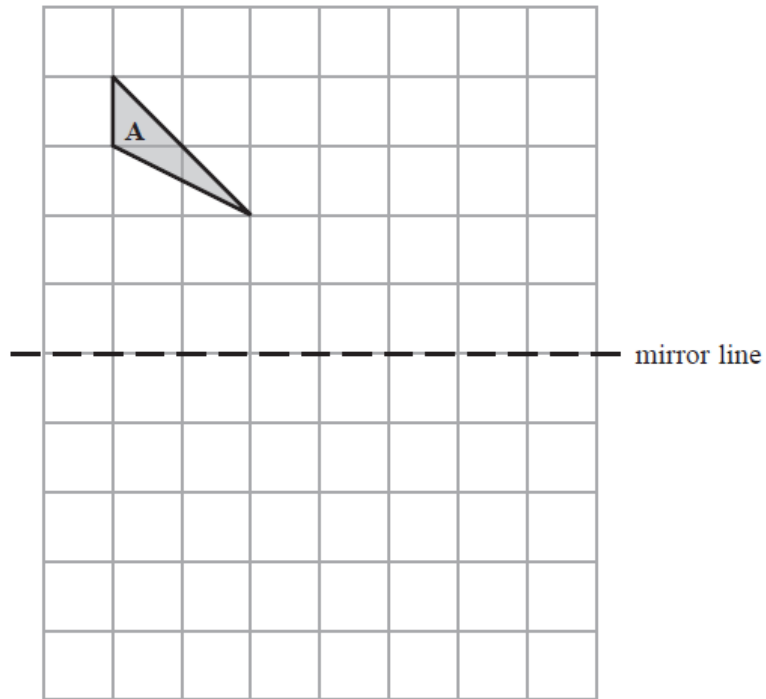
(Total for Question 10 is 2 marks)

11 Change 3 metres into centimetres.

.... centimetres

(Total for Question 11 is 1 mark)

12 Scott wants to make orange juice.
He is going to buy boxes of oranges.

There are 24 oranges in each box of oranges.
30 oranges make 2 litres of orange juice.

Scott needs to buy enough oranges to make 8 litres of orange juice.

(*a*) Work out the number of boxes of oranges that Scott needs to buy.
You must show all your working.

....
(3)

Scott also buys
    1260 apples
     280 bananas

(*b*) Write down the ratio of the number of apples that Scott buys to the number of
bananas that he buys.
Give your ratio in its simplest form.

....
(2)

(Total for Question 12 is 5 marks)

13 A machine fills bags with sweets.

There are 4275 sweets.
There are 28 sweets in each full bag.

The machine fills as many bags as possible.

How many sweets are left?

....

(Total for Question 13 is 3 marks)

14 $T = 3x + 4y$

(*a*) Work out the value of T when $x = 5$ and $y = -7$

....

(2)

(*b*) Work out the value of y when $T = 38$ and $x = 6$

....

(2)

(Total for Question 14 is 4 marks)

15   Rachel, Samina and Tom share £600 between them.

Rachel gets $\frac{2}{5}$ of the £600

Samina gets $\frac{1}{4}$ of the money that is left over.

Tom gets the rest of the money.

Tom says,
"I would have got more money if we had shared the £600 equally between us."

Is Tom correct?
You must show how you get your answer.

(Total for Question 15 is 4 marks)

16 Write the following fractions in order of size.
Start with the smallest fraction.

$$\frac{5}{8} \qquad \frac{2}{3} \qquad \frac{4}{9} \qquad \frac{3}{5}$$

....

(Total for Question 16 is 2 marks)

TOTAL FOR PAPER IS 40 MARKS