Write your name here

Surname		Other names

In the style of:
Pearson Edexcel
GCSE

Centre Number

Candidate Number

Mathematics

Fractions

Foundation Tier

GCSE style questions arranged by topic

Paper Reference
1MA0/2F

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator.

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*.
- **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.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out.**

Information

- The total mark for this paper is 80
- 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.

Turn over ▶

1   David earns a salary of £3500 per month.

He gets a pay rise of 4%.

Work out his new monthly salary.

....
(3)

(Total for Question 1 is 3 marks)

2(a)

Helen wins a race.

Her time is recorded as 50.36 seconds.

Andrew comes second in the race.

His time is three-hundredths of a second

slower.
Work out Andrew's time.

(2)

(b) Round Helen's time of 50.36 seconds to 1 decimal place.

(1)

(Total for Question 2 is 6 marks)

3

Write a number in each box to make correct statements.

(a) $50\% = \dfrac{\boxed{}}{2}$

(1)

(b) $0.3 = \dfrac{\boxed{}}{10}$

(1)

(c) $\dfrac{1}{3} = \dfrac{\boxed{}}{9}$

(1)

(d) $\dfrac{3}{15} = \dfrac{\boxed{}}{5}$

(1)

(Total for Question 3 is 4 marks)

4   Two banks calculate the yearly interest they pay customers.

Westminster Bank	**District Bank**
4% of the total that you invest	1% of the first £300 that you invest 6% of amounts over £300 that you invest
For example: Invest £700	For example: Invest £700
Interest = 4% of £700	Interest =1% of £300 + 6% of £400

Ashna has £500 to invest for one year.

Work out which bank will pay her more
interest. State how much **extra** interest she
will earn.

Bank ....

Extra Interest £..................................

(Total for Question 4 is 5 marks)

5   There are 180 people at a wedding. 20% are
children. One-half are men. The rest are women.
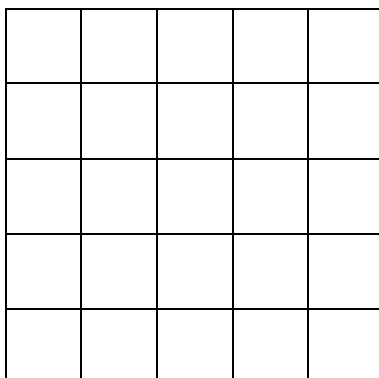

How many women are at the wedding?

Answer   ....

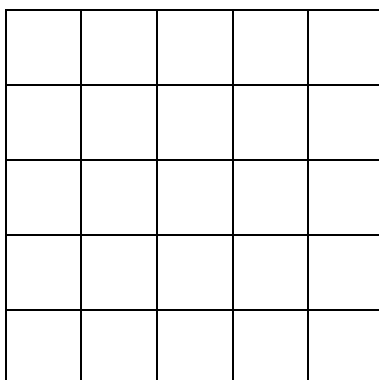**(Total for Question 5 is 4 marks)**

6 (a) Shade $\frac{9}{25}$ of this square grid.

(1)

(b) Shade $\frac{4}{5}$ of this square grid.

(1)

(c) Use your answers to part (a) and part (b) to write down the answer to $\frac{4}{5} - \frac{9}{25}$

Answer ....

(1)

(d) Work out $\frac{2}{3}$ of 36

Answer……………………………………. (2)

(Total for Question 6 is 5 marks)

7 (a) Use your calculator to work out $\dfrac{4.7}{9.4-3.5}$

Write down all the figures on your calculator display.

....
(2)

(b) Write these numbers in order of size.
Start with the smallest number.

$$0.82 \qquad \frac{4}{5} \qquad 85\% \qquad \frac{2}{3} \qquad \frac{7}{8}$$

....
(2)

(Total for Question 7 is 4 marks)

8 A concert ticket costs £65 plus a booking charge of 15%.

Work out the total cost of a concert ticket.

£ ....

(Total for Question 8 is 3 marks)

9 A school canteen sells salads and hot meals.
In one week the number of salads sold and the number of hot meals sold were in the ratio 3 : 5

The total number of salads and hot meals sold in the week was 1456

Work out the number of salads sold.

....

(Total for Question 9 is 2 marks)

10 A garage sells British cars and foreign cars.
The ratio of the number of British cars sold to the number of foreign cars sold is 2 : 7

The garage sells 45 cars in one week.

(a) Work out the number of British cars the garage sold that week.

....
(2)

A car tyre costs £80 plus VAT at $17\frac{1}{2}$ % .

(b) Work out the total cost of the tyre.

£ ....
(3)

The value of a new car is £14 000

The value of the car depreciates by 20% per year.

(c) Work out the value of the car after 2 years.

£ ....
(3)

(Total for Question 10 is 8 marks)

11 There are some pens in a bag.

36 of the pens are blue.

24 of the pens are black.

(a) Write down the ratio of the number of blue pens to the number of black pens.
Give your ratio in its simplest form.

.... : ....
(2)

There are some books and comics in a box.
The total number of books and comics is 54
The ratio of the number of books to the number of comics is 1 : 5

(b) Work out the number of books in the box.

....
(2)

(Total for Question 11 is 4 marks)

12 Louis invested £6500 for 2 years in a savings account.

He was paid 4% per annum compound interest.

(a) How much did Louis have in his savings account after 2 years?

£ ....
(3)

Hassan invested £2400 for *n* years in a savings account.

He was paid 7.5% per annum compound interest.

At the end of the *n* years he had £3445.51 in the savings account.

(b) Work out the value of *n*.

....
(2)

(Total for Question 12 is 5 marks)

13 Work out $\dfrac{2}{3} \div \dfrac{7}{9}$

Give your fraction in its simplest form.

....
(3)

(b) Work out $2\dfrac{1}{3} - 1\dfrac{2}{5}$

....
(3)

(Total for Question 13 is 6 marks)

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