

Write your name here

Surname

Other names

**In the style of:
Pearson Edexcel
GCSE**

Centre Number

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Candidate Number

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Mathematics

Number

Foundation Tier

GCSE style questions arranged by topic

Paper Reference

1MA0/1F

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

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 not be used.**
- 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(a) Work out $7500 + 1500$

Write your answer in words.

.....
(2)

1(b) Write 4748 to the nearest hundred.

.....
(1)

1(c) What is the value of the digit 5 in the number 425 986?

.....
(1)

1(d) Write down the positive square root of 121.

.....
(1)

1(e) Which of these is equal to one million?

Circle your answer.

10^3 10^4 10^5 10^6 10^7

(1)

(Total for Question 1 is 6 marks)



2 Use the numbers from this list to answer the questions.

5 12 17 25 28 30 42 49

(a) Write down all the multiples of 5.

.....

(2)

(b) Write down all the factors of 100.

.....

(2)

(c) Write down a square number.

.....

(1)

(d) Write down three numbers that have a sum of 60.

..... and..... and.....

(1)

(Total for Question 2 is 6 marks)

3 Here are two numbers.

forty thousand

7500

Which number is bigger?

Give a reason for your answer.

Bigger number

Reason

.....

(2)

(Total for Question 3 is 2 marks)



4 w , x and y are three positive whole numbers. w is one-fifth of y .
 x is one-sixth of y .
 y is less than 100.
What values could y take?

.....

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

5 The numbers 13 and 17 are consecutive prime numbers.
The number halfway between them is 15.
15 is **not** a square number.
Find a pair of consecutive prime numbers less than 30 where the number halfway between them is a square number.

.....and.....

(2)

(Total for Question 5 is 2 marks)



6 Work out

$$8^2 \div 4^3$$

.....

(Total for Question 6 is 2 marks)

(2)

7 You are given that $34.7 \times 25 = 867.5$

(a) Write down the value of 347×25

.....

(1)

(b) Write down the value of $86.75 \div 25$

.....

(1)

(c) Work out the value of 34.7×26

.....

(Total for Question 7 is 4 marks)

(2)




8 A tin of baked beans costs 30p.


A shop has a special offer on the baked beans.

Special offer


Pay for 2 tins and get 1 tin free



30p



30p



Free

Helen wants 12 tins of baked beans.

(a) Work out how much she pays.

£
(3)

The normal price of a toaster is £30

In a sale, the price of the toaster is reduced by 15%.

(b) Work out the sale price of the toaster.

£
(3)

(Total for Question 8 is 6 marks)



9 Work out $\frac{1}{5} + \frac{2}{7}$

.....

(Total for Question 9 is 2 marks)

10

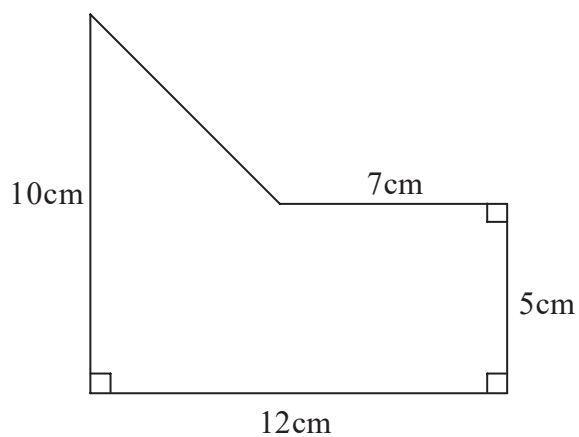


Diagram NOT accurately drawn

Work out the area of the shape.

..... cm²

(Total for Question 10 is 4 marks)



11 Use the information that

$$324 \times 46 = 14904$$

to find the value of

(a) 3.24×4.6

.....
(1)

(b) 0.324×0.46

.....
(1)

(c) $14904 \div 4.6$

.....
(1)

(Total for Question 11 is 3 marks)

12 $2x^2 = 72$

(a) Find a value of x .

.....
(2)

(b) Express 72 as a product of its prime factors.

.....
(2)

(Total for Question 12 is 4 marks)



13 Here are the ingredients needed to make 8 pancakes.

| |
|---|
| <p style="text-align: center;">Pancakes</p> <p>Ingredients to make 8 pancakes</p> <p>300 ml milk 1 egg 120 g flour 5 g butter</p> |
|---|

David makes 24 pancakes.

(a) Work out how much milk he needs.

..... ml
(2)

Louis makes 12 pancakes.

(b) Work out how much flour he needs.

..... g
(2)

(Total for Question 13 is 4 marks)



14 Shagufta has a part-time job.
She is paid £5.60 for each hour she works.
Last week Shagufta worked for 24 hours.
Work out Shagufta's total pay for last week.

£

(Total for Question 14 is 3 marks)

15 Here are the ages, in years, of 15 teachers.

34 53 41 28 37
22 32 40 50 34
44 28 45 45 55

Draw an ordered stem and leaf diagram to show this information.
You must include a key.



Key:

(Total for Question 15 is 3 marks)



16 Using the information that

$$4.8 \times 36 = 172.8$$

write down the value of

(a) 48×36

.....
(1)

(b) 4.8×3.6

.....
(1)

(c) $172.8 \div 48$

.....
(1)

(Total for Question 16 is 3 marks)



17 This rule is used to work out the total cost, in pounds, of hiring a bicycle.

Multiply the number of days' hire by 3
Add 6 to your answer

Peter hires a bicycle.

The total cost is £18

(a) Work out for how many days he hires the bicycle.

..... days (2)

(b) Write down an expression, in terms of n , for the total cost, in pounds, of hiring a bicycle for n days.

.....
(2)

(Total for Question 17 is 4 marks)



18

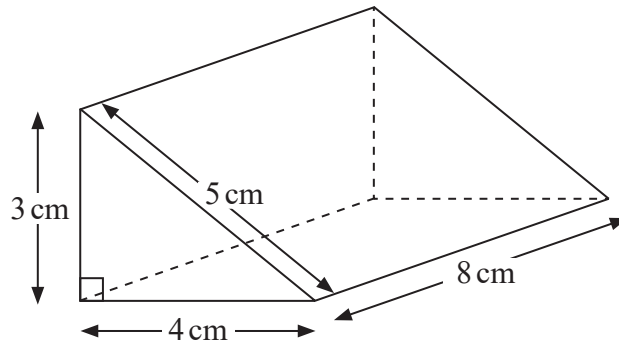


Diagram **NOT**
accurately drawn

Work out the total surface area of the triangular prism.
Give the units with your answer.

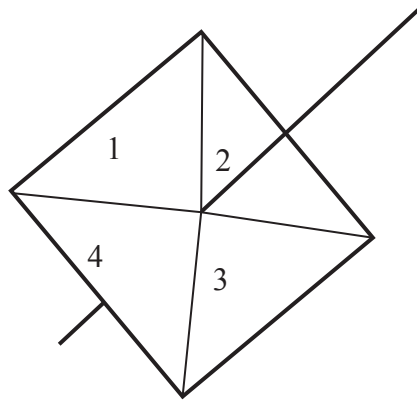
.....
(Total for Question 18 is 4 marks)



19 Work out an estimate for $\frac{302 \times 9.96}{0.51}$

.....
(Total for Question 19 is 3 marks)

20 Here is a 4-sided spinner.



The sides of the spinner are labelled 1, 2, 3 and 4.

The spinner is biased.

The table shows the probability that the spinner will land on each of the colours 1, 4 and 3.

| | | | | |
|-------------|-----|---|-----|-----|
| Colour | 1 | 2 | 3 | 4 |
| Probability | 0.2 | | 0.3 | 0.1 |

Work out the probability the spinner will land on 2.

.....
(Total for Question 20 is 2 marks)



21 (a) Write down the reciprocal of 5

.....(1)

(b) Work out the value of $2\frac{4}{5} - 1\frac{3}{4}$

Give your answer as a fraction in its simplest form.

..... (3)

(c) Derek says that $4\frac{1}{3}$ is equal to 4.3

Derek is **wrong**.

Explain why.

.....

.....

(1)

(Total for Question 21 is 5 marks)



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