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GCSE
Mathematics (Non-calculator Paper)

Practice Paper Style Questions – Topic: Number (Foundation Tier)

For this paper you must have:

- black pen
- HB pencil
- ruler (with cm & mm)
- rubber
- protractor
- compass
- pencil sharpener

Time allowed
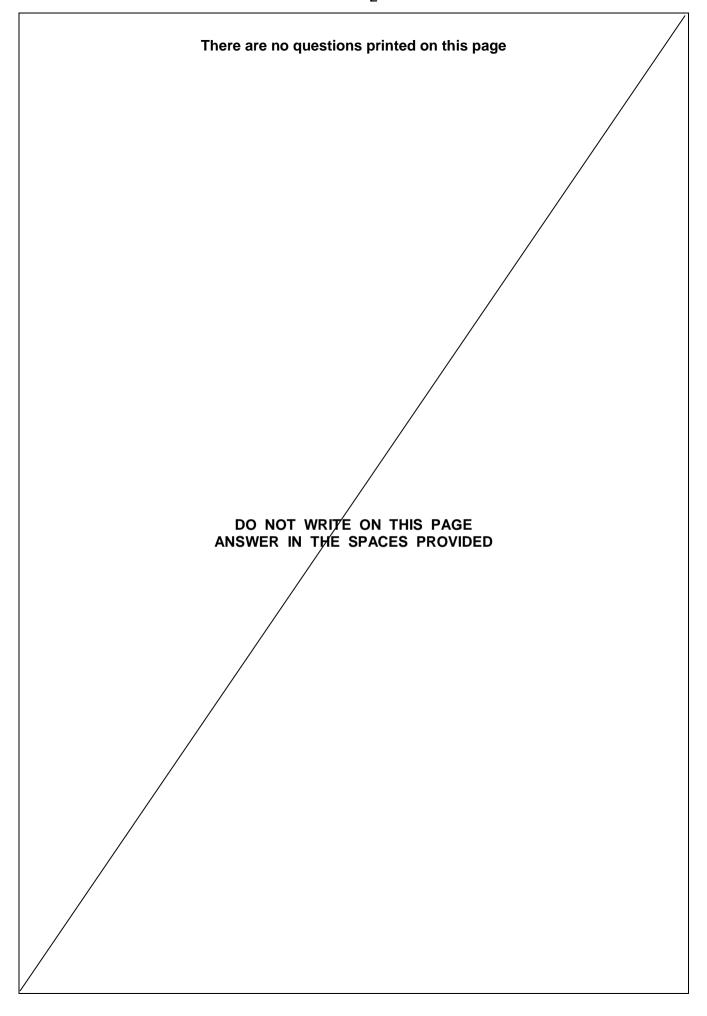- 1 hour

Instructions
- Use **black ink** or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the space provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work that you do not want to be marked.

Information
- The marks for questions are shown in brackets.
- The maximum mark for this paper is **70**.
  The quality of your written communication is specifically assessed in questions indicated with an asterisk (*)
- You may ask for more answer paper and graph paper.
  These must be tagged securely to this answer booklet.
- A calculator must NOT be used.

Advice
- Read each question carefully before you answer it.
- In all calculations, show clearly how you work out your answer.
- Check your answers if you have time at the end.

There are no questions printed on this page

**DO NOT WRITE ON THIS PAGE
ANSWER IN THE SPACES PROVIDED**

Do not write outside the box

1 (a) Work out 6500 + 2500

Write your answer in **words**.

Answer .... *(2 marks)*

1 (b) Write 6247 to the nearest hundred.

Answer .... *(1 mark)*

1 (c) What is the value of the digit 7 in the number 267,569?

Answer .... *(1 mark)*

1 (d) Write down the positive square root of 169

Answer .... *(1 mark)*

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

Circle your answer.

10^2 10^3 10^4 10^5 10^6

(1 mark)

6

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

6   12   15   25   34   36   42   48

2 (a)   Write down all the multiples of 4

Answer .... *(2 marks)*

2 (b)   Write down all the factors of 75

Answer .... *(2 marks)*

2 (c)   Write down a square number

Answer .... *(1 mark)*

2 (d)   Write down three numbers that have a total of 90

Answer ....*and*........................*and*..................... *(1 mark)*

3*   Here are two numbers

Thirty thousand   6500

Which number is smaller? Give a reason for your answer.

Smaller number………………………………

Reason……………………………………………………………………………………

…………………………………………………………………………………………………

(2 marks)

4 a, b and c are three positive whole numbers.

a is one-quarter of c

b is one-third of c

c is less than 50

What values could c take?

……......................................……………..…………....……………………………………………..

(2 marks)

5 The numbers 19 and 23 are consecutive prime numbers.

The number halfway between them is 21.

21 is **not** a square number.

Find two pairs of consecutive prime numbers less than 50 where the number halfway between them **is** a square number.

......................................…………...………....and……………………………………….. *(2 marks)*

......................................…………...………....and……………………………………….. *(2 marks)*

6 Work out

$$9^2 \div 3^3$$

……………………………………….. *(2 marks)*

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7 If you know that 48.9 x 25 = 1222.5

7 (a)   Write down the value of 489 x 25

Answer .... *(1 mark)*

7 (b)   Write down the value of 122.25 ÷ 25

Answer .... *(1 mark)*

7 (c)   Write down the value of 4.89 x 2.5

Answer .... *(1 mark)*

8 A packet of biscuits costs 80p.

The local supermarket has a special offer on the biscuits:

SPECIAL OFFER

Pay for 2 packets of biscuits and get 1 free

80p   80p   FREE

8 (a)   Jo buys 9 packets of biscuits. Work out how much she pays.

Answer £... *(2 marks)*

8 (b) The normal price of a kettle is £20.

35% off

In the sale the price of the kettle is reduced by 35%.

Work out the sale price of the kettle.

Answer £.. *(2 marks)*

9 Here is an advert for floor tiles.

Cotswold Floor Tiles
One tile covers 0.25 square metres
Only £1.75 each

It is recommended that you buy enough tiles
to cover 5% extra area to allow for wastage.

Paul buys these tiles and allows for wastage.
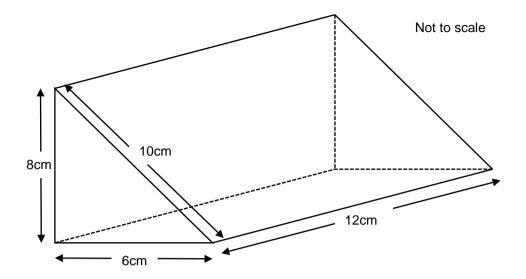The floor area is 25 square metres.

Work out the total cost.

Answer £ .... *(5 marks)*

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10 $3x^2 = 48$

10 **(a)** Find the value of x

Answer .... *(2 marks)*

10 **(b)** Express 48 as a product of its prime factors

Answer .... *(2 marks)*

11   Paul has a part-time job and he is paid an hourly rate of £5.80

Last week he worked for 26 hours.

Calculate Paul's total pay for last week.

Answer £... *(3 marks)*

12   Work out an estimate for:

$$\frac{407 \times 8.96}{0.49}$$

Answer .... *(3 marks)*
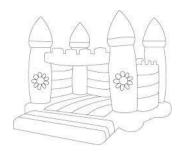
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13

Not to scale

8cm

10cm

6cm

12cm

Work out the total surface area of the triangular prism.

Remember to include the units of measurement in your answer.

Answer .... *(4 marks)*

14

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14 **(a)** Write down the reciprocal of 8

Answer .... *(1 mark)*

14 **(b)** Work out the value of:

$$4\frac{3}{5} - 2\frac{1}{4}$$

Write your answer as a fraction in its simplest form

Answer .... *(3 marks)*

14* **(c)** Jo says that $5\frac{1}{3}$ is equal to 5.3

Jo is **incorrect**. Explain why.

Reason..

....

(2 marks)

Do not write
outside the
box

15

The total cost, in pounds, of hiring a bouncy
castle can be worked out using this rule:

Multiply the number of days' hire by 50

Add 20 to your answer

Paul hires a bouncy castle.

The total cost is £170.

15 **(a)** Work out for how many days he hires the bouncy castle.

Answer ....days... *(2 marks)*

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

Answer .... *(2 marks)*

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16   Here are the ingredients needed to make 16 pancakes:

Ingredients to make **16** pancakes

250g flour
3 eggs
500ml milk
10g butter

Jo makes **24** pancakes.

16   **(a)**   Work out how much flour she needs.

Answer   ....g...... *(3 marks)*

Paul makes **12** pancakes.

16   **(b)**   Work out how much milk he needs.

Answer   ....ml...... *(3 marks)*

13

17 **(a)** Work out   589 x 16

You **must** show **all** your working.

Answer   .... *(3 marks)*

17 **(b)** Work out   468 ÷ 18

You **must** show **all** your working.

Answer   .... *(3 marks)*

END OF QUESTIONS