



**Test Papers
Hub.**

GCSE Mathematics (Foundation) Mock 1 Practice Paper 1

Paper 1 — Non-Calculator

Paper 1 • Non-Calculator • 80 marks • 1 hour 30 minutes • 31 questions

How to use this booklet

- You must NOT use a calculator on this paper.
- Answer ALL questions in the spaces provided. You must show all your working: marks are awarded for correct method as well as the final answer.
- Diagrams are not accurately drawn unless otherwise stated.
- The total mark for this paper is 80. The marks for each question are shown in brackets. Allow 1 hour 30 minutes.
- Worked solutions follow the paper: every question has step-by-step working, a key takeaway and the topic it tests.

ANSWER ALL QUESTIONS

80 marks · 1 hour 30 minutes

Write your answers in the spaces provided. Show your working. Diagrams are NOT accurately drawn.

Question 1 (2 marks)

Write down all the factors of 40.

Answer _____

Question 2 (2 marks)

Work out 10% of £120, without using a calculator.

Answer _____ £

Question 3 (2 marks)

Write these numbers in order of size, starting with the smallest: 0.08, 0.73, 0.541, 0.24

Answer _____

Question 4 (2 marks)

Work out $6 + 9 \times 9$.

Answer _____

Question 5 (2 marks)

Three angles of a quadrilateral are 108° , 94° and 97° . Work out the fourth angle.

Answer _____[°]

Question 6 (2 marks)

$v = u + at$. Work out v when $u = 6$, $a = 2$ and $t = 5$.

Answer _____

Question 7 (3 marks)

Write the ratio 21 cm : 2 m in its simplest form.

Answer _____

Question 8 (2 marks)

Change 256 mm to cm.

Answer _____ cm

Question 9 (2 marks)

Find the lowest common multiple (LCM) of 24 and 28.

WORKED SOLUTIONS

Answers & worked solutions

ANSWER ALL QUESTIONS

Question 1 (2 marks) [Factors, multiples and primes]

Write down all the factors of 40.

Answer: 1, 2, 4, 5, 8, 10, 20, 40

- A factor divides exactly into the number. Work in pairs: 1×40 , then try 2, 3, 4, ... up to about $\sqrt{40}$.
- $1 \times 40 = 40$
- $2 \times 20 = 40$
- $4 \times 10 = 40$
- $5 \times 8 = 40$
- List them in order: 1, 2, 4, 5, 8, 10, 20, 40.

LOS: Number — Factors, multiples and primes

KEY TAKEAWAY

Find factors in pairs ($1 \times n$, $2 \times \frac{n}{2}$, ...) so you do not miss any.

Question 2 (2 marks) [Percentages of amounts]

Work out 10% of £120, without using a calculator.

Answer: £12

- 10% means one tenth, so divide by 10: $£120 \div 10 = £12$.
- Check: $£12 \times 10 = £120$, the original amount. (correct)

LOS: Number — Percentages of amounts

KEY TAKEAWAY

Build any percentage from 10% and 5% (and 1%): halve, double, add.

Question 3 (2 marks) [Ordering numbers]

Write these numbers in order of size, starting with the smallest: 0.08, 0.73, 0.541, 0.24

Answer: 0.08, 0.24, 0.541, 0.73

- Give every number the same number of decimal places by adding zeros: 0.080, 0.730, 0.541, 0.240.
- Now compare them as whole numbers of thousandths (ignore the decimal point): 80, 730, 541, 240.
- Put those in order from smallest to largest, then write the original numbers back in that order: 0.08, 0.24, 0.541, 0.73.

LOS: Number — Ordering numbers