

# Level 2 Maths Mini Practice Paper 1

**Maths**

**Level 2**

Exam-style practice · 15 questions · 40 marks · Non-calculator + calculator sections

## Remember

**Time:** 40 minutes – 10 minutes for Section A (no calculator), 30 minutes for Section B (calculator allowed). Total 40 marks. A pass on a real paper is usually around 55–60%, so aim for **24 or more**.

**Show your working** for every question. Most marks are for the method; a correct answer with no working may score only one mark.

**Read to the end** of each question before starting. Many finish with 'is it enough?', 'which is cheaper?' or 'does she meet the target?' – that decision is a mark on its own.

**Units and rounding:** write £, %, m, kg on every answer; money to the nearest penny; people, boxes and tins as whole numbers.

## Section A – Non-calculator (15 marks, 10 minutes)

1. A café's takings were £486 on Monday and £1,238 on Saturday. How much more did it take on Saturday? (1 mark)

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2. Work out  $3.8 \times 25$ . (1 mark)

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3. A box holds 24 tins. A shop orders 35 boxes. How many tins is that? (1 mark)

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4. Write 0.35 as a fraction in its simplest form, and  $\frac{3}{8}$  as a percentage. (2 marks)

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5. Find 15% of £380. (2 marks)

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6. Put these in order, smallest first: 0.7,  $\frac{2}{3}$ , 68%,  $\frac{7}{10}$ , 0.66 (2 marks)

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7. A bus leaves at 07:35 and the journey takes 1 hour 50 minutes. What time does it arrive? (1 mark)

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8. A recipe for 4 people uses 250 g of flour. How much flour is needed for 10 people? (2 marks)

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9. Estimate  $48.7 \times 21.3 \div 4.9$  by rounding each number to 1 significant figure. Show the numbers you use. (2 marks)

10. A rectangle is 7 cm by 4 cm. Write down its perimeter and its area. (1 mark)

## Section B – Calculator allowed (25 marks, 30 minutes)

11. Dami is paid £11.80 an hour for 36 hours a week, plus time and a half for overtime. Last week she worked 41 hours. Tax and other deductions came to £84.30. What was her take-home pay? (4 marks)

12. A community centre is replacing the flooring in its main hall, which is a rectangle 15.6 m by 9.5 m. Vinyl flooring costs £18.40 per  $\text{m}^2$  and is sold in whole square metres. Fitting costs a further £3.50 per  $\text{m}^2$ . The centre has budgeted £3,400. Is the budget enough? Show your working. (5 marks)

13. The table shows the number of complaints received by four branches of a company over 12 months.

| Branch                | North | South | East | West |
|-----------------------|-------|-------|------|------|
| Complaints            | 48    | 72    | 36   | 84   |
| Customers (thousands) | 12    | 24    | 8    | 21   |

(a) Which branch had the most complaints? (b) The company measures performance by complaints per thousand customers. Which branch performed worst on this measure? (c) Explain why the company's measure is fairer than just counting complaints. (5 marks)

14. Two vans are being compared for a delivery firm.

**Van A:** £14,500 to buy, 34 miles per gallon. **Van B:** £16,200 to buy, 42 miles per gallon.

The firm drives 22,000 miles a year and fuel costs £6.70 a gallon. Over 3 years, which van is cheaper in total (purchase plus fuel)? By how much? (5 marks)

15. A survey asked 150 adults how many hours of exercise they did last week.

|            |                |                |                |                 |
|------------|----------------|----------------|----------------|-----------------|
| Hours, $h$ | $0 \leq h < 2$ | $2 \leq h < 4$ | $4 \leq h < 6$ | $6 \leq h < 10$ |
| Frequency  | 54             | 48             | 30             | 18              |

(a) Estimate the mean number of hours. (b) The NHS recommends at least 2.5 hours a week. Using the table, what is the greatest number of people in the survey who could be meeting that target? (c) A student says 'most people meet the target'. Comment on this. (6 marks)

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# Level 2 Maths Mini Practice Paper 1 – Answers

Level 2 · Working shown so you can check your method, not just the final number.

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## Section A

1.  $1,238 - 486 = \textbf{£752}$ .
2.  $38 \times 25 = 950 \rightarrow \textbf{95}$ .
3.  $24 \times 35 = \textbf{840}$ .
4.  $0.35 = \frac{35}{100} = \frac{7}{20}$ ;  $\frac{3}{8} = \textbf{37.5\%}$ .
5.  $10\% = 38$ ,  $5\% = 19$ , so  $15\% = \textbf{£57}$ .
6.  $0.66$ ,  $\frac{2}{3}$  ( $0.667$ ),  $68\%$ ,  $0.7 = \frac{7}{10}$ . Order: **0.66,  $\frac{2}{3}$ , 68%, 0.7 and  $\frac{7}{10}$  (equal)**.
7.  $07:35 + 1:50 = \textbf{09:25}$ .
8.  $250 \div 4 = 62.5$  g per person  $\times 10 = \textbf{625 g}$ .
9.  $50 \times 20 \div 5 = \textbf{200}$ .
10. Perimeter **22 cm**; area **28 cm<sup>2</sup>**.

## Section B

11. Basic  $36 \times 11.80 = \text{£}424.80$  (M1). Overtime  $5 \times 17.70 = \text{£}88.50$  (M1). Gross  $\text{£}513.30$  (M1). Take-home  $513.30 - 84.30 = \textbf{£429}$  (A1).
12. Area  $15.6 \times 9.5 = 148.2 \rightarrow 149 \text{ m}^2$  (M1, M1 for rounding up). Cost per  $\text{m}^2 = 18.40 + 3.50 = \text{£}21.90$  (M1).  $149 \times 21.90 = \text{£}3,263.10$  (M1). **Yes**, the budget is enough, with  $\text{£}136.90$  to spare (A1). (Using  $148.2 \text{ m}^2$  unrounded gives  $\text{£}3,245.58$  – still yes; award full marks if the decision and method are clear.)
13. (a) **West** (84). (b) Per thousand: North 4, South 3, East 4.5, West 4. **East** is worst (M1 for at least two rates, A1). (c) Bigger branches serve more customers, so they will naturally get more complaints; dividing by customers compares like with like (B1).
14. Fuel per year: A  $22,000 \div 34 = 647.1$  gallons  $\times 6.70 = \text{£}4,335.29$ ; B  $22,000 \div 42 = 523.8$  gallons  $\times 6.70 = \text{£}3,509.52$  (M1, M1). Three years: A  $14,500 + 13,005.88 = \text{£}27,505.88$ ; B  $16,200 + 10,528.57 = \text{£}26,728.57$  (M1). **Van B is cheaper by about £777** (A1, A1 – accept  $\text{£}770\text{--}\text{£}780$  depending on rounding).
15. (a) Midpoints 1, 3, 5, 8. fx:  $54 + 144 + 150 + 144 = 492$  (M1, M1).  $492 \div 150 = \textbf{3.28 hours}$  (A1). (b) Everyone in the 4–6 and 6–10 groups (48) plus possibly those in 2–4 who did 2.5 or more – at most all 48 of them: **96** (M1, A1). (c) Not supported – at most 96 of 150 (64%) could meet it, and probably far fewer since many in the 2–4 group will be under 2.5; the 54 people under 2 hours definitely do not (B1).

## Where Level 2 students lose marks on this topic

- Running out of time on Section A by writing too much – these are one- or two-line answers.
- Doing the calculation and forgetting the decision: 'is the budget enough?' needs Yes/No and the figures.
- Rounding early (647 gallons instead of 647.06) and drifting outside the accepted answer range on a long question.