

Multiplication and Division

Maths

Level 2

Exam-style practice · 11 questions · 31 marks · Non-calculator

Remember

Long multiplication: $346 \times 24 = (346 \times 20) + (346 \times 4) = 6,920 + 1,384 = 8,304$. The grid method works just as well.

Division: $8,304 \div 24$: how many 24s in 83? 3 (72), remainder 11 $\rightarrow$ 110: 4 (96), remainder 14 $\rightarrow$ 144: 6. Answer 346.

Remainders in context: 'How many coaches for 187 people if each holds 50?' $187 \div 50 = 3.74 \rightarrow$ **4 coaches** (round up). 'How many full boxes of 12 from 187 eggs?' $\rightarrow$ **15 boxes** (round down), 7 left over.

Decimals: $3.6 \times 2.5 \rightarrow 36 \times 25 = 900 \rightarrow$ two decimal places in the question $\rightarrow 9.00$.

Section A – Written methods

1. Work out: (a) 428×36 (b) 2.7×1.8 (c) $5,208 \div 14$ (d) $91.2 \div 6$ (4 marks)

2. A school orders 24 boxes of exercise books. Each box holds 125 books at 38p each. What is the total cost of the order? Give your answer in pounds. (3 marks)

Section B – Remainders and rounding in context

3. A youth club is taking 214 people on a trip. Each coach seats 53. (a) How many coaches are needed? (b) How many empty seats will there be? (3 marks)

4. A bakery has 1,000 rolls. They are packed in bags of 6. How many full bags can be made, and how many rolls are left over? (2 marks)

5. A hall can seat 8 people per table. 158 guests are coming to a wedding. The venue charges £14 per table. How much will the tables cost? (3 marks)

6. A printer produces 45 leaflets a minute. A job of 12,400 leaflets is started at 09:00. Will it be finished by 13:30? Show your working. (3 marks)

Section C – Sharing, rates and unit costs

7. Six colleagues share the cost of a £237.60 leaving gift equally. How much does each pay? (1 mark)

8. A cleaner is paid £12.60 an hour and works 37.5 hours a week. What does she earn in a week? In a year (52 weeks)? (3 marks)

9. Twelve identical packs of paper cost £57. What is the cost per pack? What would 30 packs cost? (2 marks)

10. A nursery uses 3 nappies per child per day. It has 28 children, 5 days a week. Nappies come in boxes of 150 costing £11.20. How many boxes are needed for 4 weeks, and what will they cost? (4 marks)

11. A car travels 486 miles on 45 litres of fuel. A van travels 630 miles on 70 litres. Which vehicle is more fuel-efficient? Show your working. (3 marks)

Multiplication and Division – Answers

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

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Section A

- (a) **15,408** (b) **4.86** (c) **372** (d) **15.2**.
- $24 \times 125 = 3,000$ books. $3,000 \times 0.38 = \textbf{£1,140}$.

Section B

- (a) $214 \div 53 = 4.04 \rightarrow \textbf{5 coaches}$. (b) $5 \times 53 = 265$; $265 - 214 = \textbf{51 empty seats}$.
- $1,000 \div 6 = 166 \text{ r } 4 \rightarrow \textbf{166 full bags, 4 rolls left}$.
- $158 \div 8 = 19.75 \rightarrow \textbf{20 tables}$. $20 \times \text{£}14 = \textbf{£280}$.
- $12,400 \div 45 = 275.6$ minutes $\approx 4 \text{ h } 36 \text{ min}$. $09:00 + 4:36 = 13:36$. **No** – it finishes about 6 minutes late. (Accept 'no, 276 minutes needed, only 270 available'.)

Section C

- $237.60 \div 6 = \textbf{£39.60}$.
- $12.60 \times 37.5 = \textbf{£472.50}$ a week. $\times 52 = \textbf{£24,570}$ a year.
- $57 \div 12 = \textbf{£4.75}$ per pack. $30 \times 4.75 = \textbf{£142.50}$.
- $3 \times 28 \times 5 = 420$ nappies a week; $\times 4 = 1,680$ for four weeks. $1,680 \div 150 = 11.2 \rightarrow \textbf{12 boxes}$. $12 \times 11.20 = \textbf{£134.40}$.
- Car: $486 \div 45 = 10.8$ miles per litre. Van: $630 \div 70 = 9$ miles per litre. **The car** is more fuel-efficient. (Litres per mile also acceptable if compared correctly.)

Where Level 2 students lose marks on multiplication and division

- Rounding the wrong way: 4.04 coaches $\rightarrow 4$ coaches leaves 2 people behind. If people or things must all fit, round up.
- Stopping at the division: '19.75' is not an answer to 'how many tables'.
- Place-value slips with decimals – $2.7 \times 1.8 = 48.6$ instead of 4.86. Count the decimal places in the question and match them in the answer.