

**YEAR 6**

## Long Multiplication and Division

Three sections. Section A and B are the arithmetic paper: set the working out properly and the marks come with it. Section C is the reasoning paper, where the difficulty is deciding what to do rather than doing it.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_

### A. Long multiplication

*Multiply by the units, then the tens, then add. Keep the columns lined up.*

①  $346 \times 24$

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②  $528 \times 37$

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③  $417 \times 56$

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④  $263 \times 48$

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⑤  $735 \times 29$

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⑥  $58 \times 46$

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⑦  $94 \times 33$

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### B. Long division

*How many times does the divisor go in, and what is left over?*

⑧  $918 \div 27$

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9  $1224 \div 34$

10  $2072 \div 56$

11  $1035 \div 45$

12  $487 \div 6$ , giving the remainder

13  $932 \div 7$ , giving the remainder

14 Write  $487 \div 6$  as a mixed number in its simplest form.

### C. Problems

*Read the question twice. A remainder sometimes means round up.*

15 A theatre has 34 rows of 26 seats. How many seats in total?

16 1,248 pencils are packed into boxes of 24. How many boxes?

17 A school orders 18 crates of 45 books. How many books?

18 A coach carries 52 people. How many coaches are needed for 731 people?

19 Explain why the answer above is not 14 remainder 3.

20 A factory makes 2,375 items a day. How many in a 6 day week?