

Year 2

Number: Multiplication and Division

- Work out doubles up to and including 20
- Work out related halves for doubles up to and including 20
- Solve 1-step problems involving multiplying by 2, multiplying by 5 and multiplying by 10
- Solve 1-step problems involving dividing by 2, dividing by 5 and dividing by 10 (sharing equally or grouping)
- Recognise the commutative nature of multiplication
- Read, write and interpret mathematical statements involving multiplication and division using the multiplication (\times), division (\div) and equals ($=$) signs, for the 2, 5 and 10 multiplication tables
- Recognise and work out multiplication and division for the 2, 5 and 10 multiplication tables (up to and including $10 \times \dots$)
- Solve missing number problems for multiplication and division facts for the 2, 5 and 10 multiplication tables (up to and including $10 \times \dots$)

Year 4

Number: Multiplication and Division

- Recall and use multiplication and division facts for the 2, 3, 4, 5 and 10 multiplication tables including multiples and factor pairs; recognise and work out multiplication and division for the 6 and 8 multiplication tables (up to and including $10 \times \dots$)
- Multiply and divide numbers by 10 and multiply by 0
- Read, write and interpret mathematical statements involving multiplication and division using the multiplication (\times), division (\div) and equals ($=$) signs, for the 6 and 8 multiplication tables
- Use known multiplication facts to multiply by multiples of 10
- Use place value, knowledge of facts and partitioning to multiply and divide mentally
- Multiply together two single-digit numbers
- Use place value to double and halve 2- and 3-digit numbers mentally
- Multiply 2-digit and 3-digit numbers by a 1-digit number using a formal written method
- Divide 3-digit numbers by 1-digit numbers with integer answers

- Estimate the answer to a calculation
- Understand when to multiply and when to divide, and the relationship between multiplication and division.
- Solve missing number problems for multiplication and division

Year 6

Number: Multiplication and Division

- Recall multiplication and division facts for multiplication tables up to and including 12×12 ; identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers within these multiplication tables
- Recognise square and cube numbers and relate these to a pattern that forms a square or cube
- Multiply integers up to and including four digits by two 2-digit numbers using mental or formal written methods where appropriate
- Estimate the answer to a multiplication involving a 1 or 2 place decimal and a whole number
- Multiply decimals with 1 or 2 decimal places by whole numbers
- Divide numbers up to and including four digits by 1-digit numbers with remainders written as fractions
- Divide numbers up to and including four digits by 2-digit numbers with remainders written as decimals (up to and including 2 decimal places)
- Divide numbers up to four digits by 2-digit whole numbers using a formal written method, with whole number or decimal answers (up to 2 decimal places)
- Interpret remainders by rounding, as appropriate for the context
- Multiply and divide whole numbers and decimals by 10, 100 and 1000, with integer and decimal answers (up to and including 2 decimal places)
- Find common factors, common multiples and prime factors

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