



Mathematics Curriculum Journey – Multiplication and Division

Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers

Establish whether a number up to 100 is prime and recall prime numbers up to 19

Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers

Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000

Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables

Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems

Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher

Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication

Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context

Multiply and divide numbers mentally drawing upon known facts

Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)

Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context

Recognise and use factor pairs and commutativity in mental

Recall multiplication and division facts for multiplication tables up to 12×12

Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods

Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals ($=$) signs

Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.

Compare quantities up to 10 in different contexts.

Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

Y6

Count in multiples of 6, 7, 9, 25 and 1000

recognise and use factor pairs and commutativity in mental calculations

Use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1; dividing by 1; multiplying together three numbers

Y4

Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot

Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers

Y2

Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts

Y1

Subitise (recognise quantities without counting) up to 5.

Have a deep understanding of number to 10, including the composition of each number.

EYFS

Automatically recall number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.