



Year 6 Mastery Indicators

read, write, order and compare numbers up to 10 000 000 and determine the value of each digit

use negative numbers in context, and calculate intervals across zero

round any whole number to a required degree of accuracy

solve number and practical problems that involve all of the above

perform mental calculations, including with mixed operations and large numbers

add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)

solve problems involving addition, subtraction, multiplication and division

solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

perform mental calculations, including with mixed operations and large numbers

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 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

solve problems involving addition, subtraction, multiplication and division

use their knowledge of the order of operations to carry out calculations involving the four operations

use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

identify common factors, common multiples and prime numbers

compare and order fractions, including fractions > 1

use common factors to simplify fractions; use common multiples to express fractions in the same denomination

add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions

multiply simple pairs of proper fractions, writing the answer in its simplest form
[for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$]

divide proper fractions by whole numbers
[for example, $\frac{1}{3} \div 2 = \frac{1}{6}$]

solve problems which require answers to be rounded to specified degrees of accuracy

identify the value of each digit in numbers given to three decimal places

multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places

multiply one-digit numbers with up to two decimal places by whole numbers

use written division methods in cases where the answer has up to two decimal places

associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$]

recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

solve problems with fractions, decimals and percentages