Year 6

Essential Skills
YEAR 6

- read, write, order and compare numbers up to 10 000 000 and determine the value of each digit
- 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
- 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
- divide proper fractions by whole numbers
- Find the range, mean, median and mode of a set of numbers
- Recognise rotational symmetry and translations of shapes
- Use brackets in calculations
  (3x7)+(24/6)
  =21+4
  =25
- Use a calculator for appropriate calculations
- Solve problems using ratio and proportion
  1 boy:3 girls
  48 children altogether = 12 boys:36 girls
- Work out simple % of whole numbers
- Estimate angles and use a protractor to measure them
- Use coordinates to plot the position of points
- calculate the area of parallelograms and triangles
- illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius

Examples of Calculations in Year 6

Addition

Use brackets in calculations and know the order of operations	*Answer these:* *(15 + 8) x (12 - 6) =* *(9 + 15) – (3 x 2) =*
Add fractions with different denominators	*What is 3/5 + 2/3? Explain the method you used to work it out.*

Subtraction

Use a formal written method to subtract decimals to thousandths	*Write the missing digits in this subtraction:* *5 3 5 . 2 3 ** *- 1 * 8 . 3 8 4* *3 6 6 . 9 * 3*

Multiplication

Know the order of operations to calculate with brackets	*Answer these:* *(17x4) + (121÷11) =* *(8+3) x (7+9) =*
Use a written method to multiply numbers with up to two decimal places	*Multiply 0.07 by 0.6.*

Division

Know the order of operations to calculate with brackets	*Answer these:* *(17x4) + (121÷11) =* *(8+3) x (81÷9) =*
Use a written method for ThHTU ÷ TU, including remainders	*Show the method you would use to divide 1749 by 16.*