

Problem Solving

Solve problems involving multiplication & division, incl. scaling by simple fractions.

I can solve multi-step problems involving the 4 operations (+ - x and ÷).

Use all 4 operations to solve problems involving measure, using decimals & incl. scaling.

I can solve problems involving numbers up to 3 decimal places.

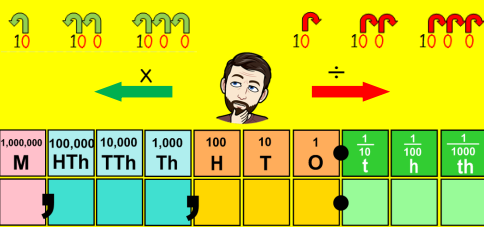
I can solve problems involving percentage and decimal equivalences.

Place Value

Recognise the value of each digit in numbers to 1,000,000 (*linked to O&C target 1 too*).

I can multiply and divide whole numbers and decimals by 10, 100 and 1,000.

Recognise thousandths & relate to tenths, hundredths & decimal equivalents.



Ordering and Counting

Read, write, order & compare numbers to 1,000,000 (*linked to PV target 1 too*).

I can count forwards and back with positive and negative numbers, incl. through zero.

I can read Roman numerals to 1,000 (i-M) and recognise years in Roman numerals.

I can round any number to 1,000,000 to nearest 10, 100, 1000, 10,000 or 100,000.

Count forwards & backwards in steps of powers of 10 from any number up to 1,000,000.

Addition

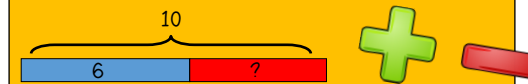
I can add whole numbers with four or more digits using an efficient written method.



Subtraction

Subtract whole numbers with more than four digits using an efficient written method.

I can estimate and use the inverse operation to check an answer.



Multiplication

I can multiply using short multiplication.

I can multiply using long multiplication.

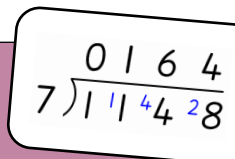
Identify multiples, factors and common pair factors of two numbers.

I can identify prime numbers, prime factors and composite numbers.

Identify square numbers and cube numbers & use correct notation to express them.

Division

I can divide by a single digit and interpret remainders.



Mental Calculation

Perform mental calculations with larger numbers drawing on known facts.

$30 \times 40 = 1200$

If I know...
 $3 \times 40 = 120$
 Then I know...
 $40 \times 3 = 120$
 $120 \div 40 = 3$
 $120 \div 3 = 40$

$$\begin{array}{r} 164 \\ \times 7 \\ \hline 1148 \\ \text{42} \end{array}$$

$$\begin{array}{r} 142 \\ \times 13 \\ \hline 426 \\ + 1420 \\ \hline 1846 \end{array}$$

Zero Hero!



Name

Decimals and Percentages

Order & compare decimals with three decimal places to the nearest whole number.

I can add & subtract decimals to three decimal places.

Round decimals with 2 decimal places to the nearest whole number & to 1 decimal places.

I can multiply decimals by a single whole digit number.

Recognise and understand the % symbol and write % as fraction and decimal.

Fractions

Read and write decimals as fractions. Recognise the equivalence between fractions & decimals.

Add & subtract fractions with same denominators & denominators that are multiples of same number.

I can multiply proper fractions and mixed number fractions by a whole number.

I can compare between mixed number fractions & improper fractions.

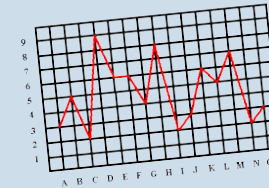
Compare and order fractions whose denominators are all multiples of the same number.

Statistics

I can read, interpret tables including timetables.

Draw conclusions, describe & predict outcomes & identify further questions to ask.

Solve comparison, sum and difference problems using info presented on a line graph.



Time

I can read, interpret tables including timetables.

I can convert units of time.



Measure

I can convert different units of metric measure.

I can understand and use equivalence between metric and common imperial units.

I can measure and calculate the perimeter of a rectilinear shape.

I can calculate the area of a rectilinear shape & estimate the area of irregular shapes.

I can estimate volume and capacity.

Shape

I can identify 3D shapes from 2D representations.

I can use the properties of rectangles find missing lengths and angles.

Describe & represent position of a shape following reflection & translation & know the shape has not changed.

I can distinguish between regular & irregular polygons.



Angles

I can draw, name and measure angles.

I know angles are measured in degrees and can identify acute, obtuse & reflex angles.

Identify angles at a point and one whole turn (360°), on straight line (180°) and other multiples of 90°.

