

Y5 Skills: Maths

Read, write, order and compare numbers to 1,000,000 including negative numbers and decimals (up to 3d.p)
e.g. explain which has the greater value, the 5 in 3,215,067 or the 5 in 856,207

Count forwards and backwards in steps of 10 for any given number up to 1,000,000
e.g. true or false? When I count in 100s from 50 I will say the number 5000,005

Read Roman numerals to 1000 and recognise years written in Roman numerals

e.g. $MC = M + C = 1000 + 100 = 1100$

e.g. $XC = C - X = 100 - 10 = 90$

Add and subtract mentally whole numbers with more than 4 digits using formal written methods, including multi-step problems

e.g. Mentally: $12462 - 2300 = 10162$

e.g. Multi-step: I buy presents costing £9.63, £5.27 and £3.72. How much change do I have from £20?

Identify prime numbers up to 100, prime factors, multiples and factors, including finding all factor pairs of a number, and common factors of two numbers

e.g. complete this sentence

Every number with a factor of 10 must also have factors of and and

Solve problems by multiplying and dividing numbers mentally and up to 4 digits by a one-digit number (two-digit number if multiplying) using formal written method, including long multiplication or short division (interpret remainders). This includes decimals, scaling by simple fractions and problems involving simple rates.

e.g. Construct an equilateral triangle by making its side 3 times as long

E.g. The travel agents are giving €1.40 for every £1. How many euros will I get for £200?

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

e.g. Put these values in order with the smallest first

5^2	3^2	3^3	2^3
smallest			largest

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Compare, order, add and subtract fractions whose denominators are all multiples of the same number

e.g. which is largest $\frac{2}{3}$ or $\frac{5}{9}$?

Recognise and write equivalent fractions, mixed numbers and improper fractions, converting from one form to the other. Multiply proper fractions and mixed numbers by whole numbers

e.g.

$$1\frac{2}{3} \times 4 =$$

$$\frac{1}{4} = \frac{\boxed{}}{24}$$

Solve problems which require knowing percentage, fraction and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25

e.g. Samantha got 40 marks out of 80 in a test. Sammy got 45%. who got the better score. Samantha or Sammy?

e.g. Find 75% of 360

Convert between different units of metric measure and imperial units such as inches, pounds and pints

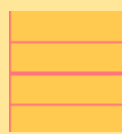
e.g. What would you multiply by to change milligrams into kilograms?

Use all four operations to solve problems involving measure (including time) using decimals notation including scaling.

e.g. How much would it cost to carpet a room with a floor area of 35 square metres if it costs £12.99 per square metre?

Measure and calculate the perimeter and area of rectangles, including estimating the area of irregular shapes. Distinguish between regular and irregular polygons based on reasoning about equal side and angles

e.g. The area of this square is 36cm^2



The square is cut into quarters to create 4 identical rectangles. What is the perimeter of one of the small rectangles?

Estimate, compare, draw and measure acute, obtuse and reflex angles. Identify angles at a point, one whole turn, at a point on a straight line and $\frac{1}{2}$ turn

e.g. Calculate the size of angle y in the diagram

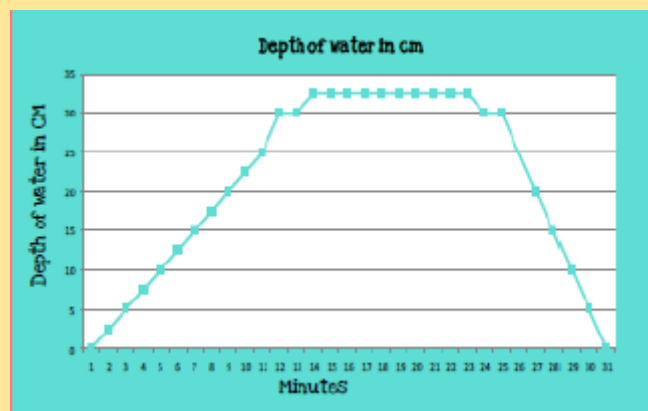


e.g. In this shape, one of the angles is obtuse. Tick the obtuse angle

Y5 Skills: Maths

Complete, read and interpret information in a line graph, tables, including timetables

e.g. Write a story about this line graph



Identify, describe and represent a shape following reflection or translation

e.g. Draw the reflection of the shape in mirror line

