

Year 5 to Year 6 Math's Learning Journey



Year 6



use the properties of rectangles to deduce related facts and find missing lengths and angles

Position & Direction
identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.

Statistics
complete, read and interpret information in tables, including timetables

solve comparison, sum and difference problems

distinguish between regular and irregular polygons

identify:
angles at a point and 1 whole turn (total 360o)
angles at a point on a straight line and half a turn (total 180o)
other multiples of 90o

draw given angles, and measure them in degrees (o)

know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles

Properties of Shape

identify 3-D shapes, including cubes and other cuboids, from 2-D representations



estimate volume and capacity

recognise the per cent symbol (%) and understand that per cent relates to "number of parts per 100"

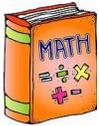
Measurement
convert between different units of metric measure

measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres

understand and use approximate equivalences between metric units and common imperial units

calculate and compare the area of rectangles (including squares)

solve problems involving converting between units of time



round decimals with 2 decimal places to the nearest whole number and to 1 decimal place

multiply proper fractions and mixed numbers by whole numbers

add and subtract fractions with the same denominator

recognise mixed numbers and improper fractions and convert from one form to the other

identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths

read and write decimal numbers as fractions

recognise and use square numbers and cube numbers

solve problems involving multiplication and division

solve problems involving addition, subtraction, multiplication and division and a combination of these

solve problems involving multiplication and division, including scaling by simple fractions

Fractions (decimals & percentages)

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

multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000

divide numbers up to 4 digits by a one-digit number using the formal written method of short division

multiply and divide numbers mentally drawing upon known facts

multiply numbers up to 4 digits by a one- or two-digit number using a formal written method

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



identify multiples and factors



Addition & Subtraction

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

use rounding to check answers to calculations

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

know and use the vocabulary of prime numbers

add and subtract numbers mentally with increasingly large numbers

round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000

Number & Place Value

read Roman numerals to 1,000 (M) and recognise years written in Roman numerals



Year 5

interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0

count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000

read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit

