

Year 4 to Year 5 Math's Learning Journey



Year 5



describe movements between positions as translations of a given unit to the left/right and up/down

interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs

Statistics

solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

Position & Direction

plot specified points and draw sides to complete a given polygon

describe positions on a 2-D grid as coordinates in the first quadrant

complete a simple symmetric figure with respect to a specific line of symmetry.

identify lines of symmetry in 2-D shapes presented in different orientations

identify acute and obtuse angles and compare and order angles up to 2 right angles by size



find the area of rectilinear shapes by counting squares

measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres

estimate, compare and calculate different measures, including money in pounds and pence

read, write and convert time between analogue and digital 12 and 24-hour clocks

compare and classify geometric shapes, including quadrilaterals and triangles

Properties of Shape

Measurement

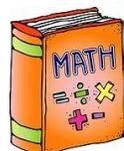
convert between different units of measure

solve simple measure and money problems involving fractions and decimals to 2 decimal places

compare numbers with the same number of decimal places up to 2 decimal places

round decimals with 1 decimal place to the nearest whole number

find the effect of dividing a one- or two-digit number by 10 and 100



recognise and show, using diagrams, families of common equivalent fractions

count up and down in hundredths

solve problems involving increasingly harder fractions to calculate quantities

add and subtract fractions with the same denominator

recognise and write decimal equivalents of any number of tenths or hundredths

recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$

Fractions (including decimals)

solve problems involving multiplying and adding

multiply two-digit and three-digit numbers by a one-digit number using formal written layout

recognise and use factor pairs and commutativity in mental calculations

use place value, known and derived facts to multiply and divide mentally,

recall multiplication and division facts for multiplication tables up to 12×12

Multiplication & Division



add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate

estimate and use inverse operations to check answers to a calculation

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

Addition & Subtraction

recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s and 1s)

order and compare numbers beyond 1,000

round any number to the nearest 10, 100 or 1,000

read Roman numerals to 100 (I to C)

Number & Place Value

count backwards through 0 to include negative numbers

find 1,000 more or less than a given number

count in multiples of 6, 7, 9, 25 and 1,000

Year 4

