

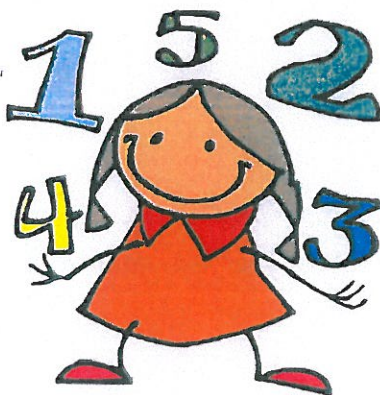


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Maths

At

Buckstones



A guide to Year 4 expectations in Maths

Following the changes in the National Curriculum, we are providing some information to support you with your child's learning.

Please use this guide to support your child with their maths homework throughout the course of the year.

The following calculation methods have been approved by the government. Your child will be expected to confidently and independently use and apply the majority of these skills by the end of the school year.

Addition

Year 4

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

$$\begin{array}{r} 678 \\ + 543 \\ \hline 1221 \\ \hline \end{array}$$

$$\begin{array}{r} 8492 \\ + 1321 \\ \hline 9813 \\ \hline \end{array}$$

Subtraction

Year 4

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

$$\begin{array}{r} 582 \\ - 323 \\ \hline 209 \\ \hline \end{array}$$

$$\begin{array}{r} 821 \\ - 332 \\ \hline 489 \\ \hline \end{array}$$

$$\begin{array}{r} 804 \\ - 312 \\ \hline 492 \\ \hline \end{array}$$

Multiplication

Year 4

Multiply two-digit and three-digit numbers by a one-digit number using formal written layout. Pupils practise to become fluent in the formal written method of short multiplication and short division with exact answers (see Mathematics Appendix 1).

$$\begin{array}{r} 342 \\ \times 7 \\ \hline 2394 \\ \hline \end{array}$$

Division

Year 4

Recall multiplication and division facts for multiplication tables up to 12×12 . Pupils practise to become fluent in the formal written method of short division with exact answers (see Mathematics Appendix 1).

$$7 \overline{) 98} \begin{array}{l} 14 \\ \hline \end{array}$$

$$6 \overline{) 134} \begin{array}{l} 22 \text{ r } 2 \\ \hline \end{array}$$

Year Group Expectations for Year 4

Number and Place Value

- Count in multiples of 6,7,9,25 and 100
- Find 1000 more or less than a given number
- Round any number to the nearest 10, 100 or 1000
- Count backwards through zero to include negative numbers
- Recognise the place value of each digit in a 4 digit number
- Order and compare numbers beyond 1000
- Identify, represent and estimate numbers using different representations
- Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value
- Estimate and use inverse operations to check answers to calculation

Addition and Subtraction

- Add numbers with 4 digits using the formal written methods of columnar addition where appropriate
- Subtract numbers with 4 digits using the formal written methods of columnar subtraction where appropriate
- Solve addition and subtraction two-step problems in context

Multiplication and Division

- Recall all multiplication facts to 12×12
- Recall all division facts to 12×12
- Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers
- Recognise and use factor pairs and commutativity in mental calculations
- Divide a 1-digit number by 10 or 100 identifying the value of the digits in the answer as units, tenths and hundredths
- Divide a 2-digit number by 10 or 100 identifying the value of the digits in the answer as units, tenths and hundredths
- Solve multiplication and division two-step problems in context
- Multiply 2-digit numbers by a 1-digit number using formal written layout
- Multiply 3-digit numbers by a 1-digit number using formal written layout
- Solve integer scaling problems
- Solve correspondence problems such as n objects are connected to m objects

Fractions and Decimals

- Round decimals with one decimal place to the nearest whole number
- Compare numbers with the same number of decimal places up to 2 decimal places
 - Recognise and write decimal equivalents of any number of tenths or hundredths
- Solve simple measures and money problems involving fractions
- Solve simple measures and money problems involving decimals to 2 decimal places
- Recognise and show, using diagrams, families of common equivalent fractions
- Count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10
- Solve problems involving fractions to calculate quantities, and fractions to divide quantities, including non unit fractions where the answer is a whole number
- Add and subtract fractions with the same denominator
- Recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$

Measurement

- Convert between different units of measure (e.g km-m, hour-minute)
- Measure and calculate the perimeter of a rectilinear figure in centimetres and metres
- Find the area of rectilinear shapes by counting squares
- Estimate, compare and calculate different measures, including money in pounds and pence
- Read, write and convert between analogue and digital 12 and 24 hour clocks
- Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days

Geometry

- Describe positions on a 2D grid as coordinates in the 1st quadrant
- Describe movements between positions as translations of a given unit to the left/right and up/down
- Plot specified points and draw sides to complete a given polygon
- Compare and classify geometrical shapes, including quadrilaterals and triangles, based on their properties and sizes
- Know that angles are measured in degrees and identify acute and obtuse angles and compare and order angles up to two right angles by size
- Identify lines of symmetry in 2D shapes presented in different orientations
- Complete a simple symmetric figure with respect to a specific line of symmetry

Statistics

- Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
- Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs