

National curriculum 2014

Maths objectives - Year 4

Objective	Child Speak Target
Number Place Value	
Interpret and present data using bar charts, pictograms and tables.	<i>I can answer questions about bar charts, pictograms and tables and make my own bar charts, pictograms and tables.</i>
Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	<i>I can answer maths problems such as 'How many more?' and 'How many fewer?' by finding the information in bar charts, pictograms and tables.</i>
Interpret and present data using bar charts, pictograms and tables.	<i>I can answer questions about bar charts, pictograms and tables and make my own bar charts, pictograms and tables.</i>
Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	<i>I can answer maths problems such as 'How many more?' and 'How many fewer?' by finding the information in bar charts, pictograms and tables.</i>
Interpret and present data using bar charts, pictograms and tables.	<i>I can answer questions about bar charts, pictograms and tables and make my own bar charts, pictograms and tables.</i>
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Interpret and present data using bar charts, pictograms and tables.	<i>I can answer questions about bar charts, pictograms and tables and make my own bar charts, pictograms and tables.</i>
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Interpret and present data using bar charts, pictograms and tables.	<i>I can answer questions about bar charts, pictograms and tables and make my own bar charts, pictograms and tables.</i>
Addition Subtraction	
Interpret and present data using bar charts, pictograms and tables.	<i>I can answer questions about bar charts, pictograms and tables and make my own bar charts, pictograms and tables.</i>
Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	<i>I can answer maths problems such as 'How many more?' and 'How many fewer?' by finding the information in bar charts, pictograms and tables.</i>
Interpret and present data using bar charts, pictograms and tables.	<i>I can answer questions about bar charts, pictograms and tables and make my own bar charts, pictograms and tables.</i>
Multiplication Division	
Recall multiplication and division facts for multiplication tables up to 12×12 .	<i>I know all my times table up to the 12 times tables.</i>
Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1.	<i>I know what the outcome is when I multiply a number by 1 or by zero.</i>
Use place value, known and derived facts to multiply and divide mentally, including: Dividing by 1.	<i>I know what the outcome is when I divide a number by 1.</i>
Use place value, known and derived facts to multiply and divide mentally, including: multiplying together three numbers.	<i>I can multiply three numbers together, such as $3 \times 6 \times 9$.</i>
Recognise and use factor pairs and commutativity in mental calculations.	<i>I know what factor pairs are how I can multiply numbers in any order and use my knowledge to work out questions in my head.</i>
Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.	<i>I can multiply a two-digit or a three-digit number by a one-digit number using written methods.</i>
Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such	<i>I can solve maths problems such as - how many different outfits can I make from 3 hats and 4 coats.</i>

as n objects are connected to m objects.	
Fractions	
Recognise and show, using diagrams, families of common equivalent fractions.	<i>I can show in drawings why a number of fractions equal each other (such as $\frac{3}{5}$ and $\frac{6}{10}$) and are called equivalent fractions.</i>
Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.	<i>I can count up and down in hundredths and know that a hundredth is made by dividing an object by one hundred and a tenth is made by dividing an object by ten.</i>
Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.	<i>I can work out the fractions of numbers such as $\frac{4}{5}$ of 25 or $\frac{7}{10}$ of 700.</i>
Add and subtract fractions with the same denominator.	<i>I can add and subtract fractions with the same denominator.</i>
Recognise and write decimal equivalents of any number of tenths or hundredths.	<i>I can tell you the decimal equivalents of any number of tenths or hundredths - such as $\frac{1}{10} = 0.1$ and $\frac{23}{100} = 0.23$.</i>
Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$.	<i>I know what the decimal equivalents are for $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$.</i>
Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.	<i>I can divide a one- or two-digit number by 10 and 100 and I know what the tenths and hundredths mean after the decimal point.</i>
Round decimals with one decimal place to the nearest whole number.	<i>I can round decimals with one decimal place to the nearest whole number.</i>
Compare numbers with the same number of decimal places up to two decimal places.	<i>I can compare numbers such as 0.26 and 0.56 to say which is bigger or lower.</i>
Solve simple measure and money problems involving fractions and decimals to two decimal places.	<i>I can solve measure and money problems involving fractions and decimals to two decimal places.</i>
Measurement	
Recognise and show, using diagrams, families of common equivalent fractions.	<i>I can show in drawings why a number of fractions equal each other (such as $\frac{3}{5}$ and $\frac{6}{10}$) and are called equivalent fractions.</i>
Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.	<i>I can count up and down in hundredths and know that a hundredth is made by dividing an object by one hundred and a tenth is made by dividing an object by ten.</i>
Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.	<i>I can work out the fractions of numbers such as $\frac{4}{5}$ of 25 or $\frac{7}{10}$ of 700.</i>
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Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$.	<i>I know what the decimal equivalents are for $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$.</i>
Shape and position	
Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.	<i>I can group 2-D shapes based on their properties (such as the number of sides) and sizes.</i>
Identify acute and obtuse angles and compare and order angles up to two right angles by size.	<i>I can find acute and obtuse angles and order a set of given angles by size.</i>
Identify lines of symmetry in 2-D shapes presented in different orientations.	<i>I can find all the lines of symmetry in 2-D shapes.</i>
Complete a simple symmetric figure with respect to a specific line of symmetry.	<i>If I have been given one half of a symmetrical shape, I can complete the other half based on the position of the line of symmetry.</i>
Describe positions on a 2-D grid as coordinates in the first quadrant.	<i>I can find the coordinates of a point on a grid.</i>
Describe movements between positions as translations of a given unit to the left/right and up/down.	<i>I can move (translate) a point on a grid by a given set of jumps either up/down or left/right.</i>
Plot specified points and draw sides to complete a given polygon.	<i>I can plot points using coordinates and join up the points to create a shape.</i>
Statistics	
Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.	<i>I can take continuous and discrete data and create a bar chart or time graph.</i>
Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	<i>I can solve comparison, sum and difference problems using information in bar charts, pictograms, tables and other graphs.</i>