Number and Place value	Jobs you can do by becoming an expert in this learning objective
Count to and read across, forwards and backwards, beginning with 0 or one, from any given number.	Teacher
Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens.	Shop owner
Given a number, identify one more or one less.	Head Chef
Addition and Subtraction	
Represent and use number bonds and related number facts to 20.	Bee Keeper
Add and subtract digit and 2-dgit numbers to 20, including 0.	Zoo Keeper
Multiplication and division	
Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the class teacher.	Lawyer
Fractions	
Recognise, find and name a half as one of two equal parts of an object, shape or quantity.	Own your own Bakery
Recognise, find and name a quarter as one of two equal parts of an object, shape or quantity	Head Chef
Measurement	
Compare, describe and solve practical problems for measurement and begin to record lengths and heights.	Architect
Compare, describe and solve practical problems for measurement and begin to record mass/weight	Aerospace engineer
Compare, describe and solve practical problems for measurement and begin to record capacity and volume.	Boat builder
Compare, describe and solve practical problems for measurement and begin to record time.	Sports Coach
Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	Teacher
Geometry	
Recognise and name common 2-D shapes	Bricklayer
Recognise and name common 3-D shapes	Civil engineer
Describe position, direction, movement, including whole, half, quarter and three- quarter turns.	CAD technician



Compare and order numbers 1000 1000 Headetacular Use glass are used number facts tooks problems. 6 Use day signs correctly only find on and subtraction on any number forward nad backwards. 6 Sole and signs correctly only find on and subtraction using correct only bet sign and problems with addition and subtraction using correct only bet sign and problems with addition and subtraction using correct only bet sign and use addition and subtraction using correct only bet sign and use restards. 6 Sole on observe with addition and subtraction using correct only bet sign and use restards. 6 7 Sole on observe with addition and subtraction using correct only bet sign and use restards. 6 7 8	Number and Place value	Jobs you can do by becoming an expert in this learning objective
Use part value and number facts to solve problem. Generation Les care stipps for out, and inters from any number forward and backwords. Matter Colurs in steps of two, three, and her from 0, and inters from any number forward and backwords. Matter Solve problems with addition and subtraction single concrete dijects and incisions. Including those involving numbers, quantities and measure. Matter Solve problems with addition and subtraction and subtraction and subtraction and subtraction and subtraction facts to 20 fluently and user related facts up to 100 Solve problems with addition and subtraction facts to 20 fluently and menally, including a 2-4igh number and ones. Matter Addition dubtract numbers using concrete objects, laterial representations, and menally, including a 2-4igh number and enes. Matter Addition dubtract numbers using concrete objects, patient representations, and menally, including a 2-4igh number and enes. Matter Addition dubtract numbers using concrete objects, patient representations, and menally, including a 2-4igh number and enes. Matter Addition dubtract numbers using concrete objects, patient representations, matter and two and subtraction and dubtion thes. It bels and writer themas. Matter Addition dubtract numbers using oncrete objects, patient representations, and multiplication and ubision dubt has to bels and writer themas. Scheol busines anager Addition dubtre numbers in genome themas of the subtraction and writer factors.	Compare and order numbers from 0 to 100	Headteacher
Use da signs correctlyFishmongerCourt as sign of we, three, and five find 0, and sites from 0, and site from 0,	Use place value and number facts to solve problems	Events manager
Cardin spage of two, these, and here from 4, and inters from any number forward and backwards. Number Solve problems with addition and subtraction using concrete objects and picturial regresentations, including those involving numbers, quantifies and measure. Marma 200 Solve problems with addition and subtraction neghting at microssing throwedge of mental and written methods. Solve problems with addition and subtraction facts D2 fluendy and darks and use related forse up to 100 Solve problems with addition and subtraction facts D2 fluendy and entally, including 2.2 digit number and tens. Solve problems with addition facts D2 fluendy and entally fluending 2.2 digit number and tens. Solve problems with addition facts D2 fluendy and entally fluending to 2-digit numbers and encounds. Solve problems with addition facts D2 fluendy and entally fluending to 2-digit numbers and encounds. Solve problems with addition facts D2 fluendy and encounds. Solve D2 fluendy Encounds. Solve D2 fluendy Encounds.	Use <> and = signs correctly	Fishmonger
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Add ad subtract numbers using concrete objects, pictorial representations, and mentally, including adding 3 1-digit numbers. Besolute Recall and use multiplication and division for the 2,5 and 10 x tables, including recognising odd and even numbers. Additor Calculate mathematical statements for multiplication and division with the x tables and write the using the x, + and signs. Besolution addition addition of the mathematical statements of numbers can be done in any order and division for en number by another cannot. School Bank manager Show that multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division for examps of 6 3 and recognise the equivalence of 2/4 and 1/2 School Bank manager Recognise, find, name and write fractions 1/3, % 2/4 and % of a length, shape, and set of objects or quantity. Method School Bank Concept Recognise, find, name and write fractions 1/3, % 2/4 and % of a length, shape, and set of objects or quantity. Method School Bank Concept Recognise, find, name and write fractions 1/3, % 2/4 and 1/2 Method School Bank Concept Method School Bank Concept Show base appropriate standard units to estimate and messure length, height in any direction(cm/m); mass (kg/g); temperature (°C); capacity (liters/m) to the number of seles and line symmetry in a vertical line. Fire Fighter Short base provides and show prove show and state sing symmetry in a vertical line. Method School Bank Concept Identify and describe the p	Add and subtract numbers using concrete objects, pictorial representations, and mentally, including two 2-digit numbers	Retail buyer
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Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in context. School business manager Recorption Recorption <t< td=""><td>Show that multiplication of two numbers can be done in any order and division of one number by another cannot.</td><td>Finance officer</td></t<>	Show that multiplication of two numbers can be done in any order and division of one number by another cannot.	Finance officer
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Identify 2-D shapes on the surface of a 3-D shapePlanning officerCompare and sort common 2-D and 3-D shapes and everyday objects.3D printing technicianOrder and arrange combinations of mathematical objects in patterns and sequences.Software developerInterpret and construct simple pictograms, tally charts, block diagrams and simple tables.Data scientistAsk and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.Shop Keeper	Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.	Dressmaker
Compare and sort common 2-D and 3-D shapes and everyday objects.3D printing technicianOrder and arrange combinations of mathematical objects in patterns and sequences.Software developerImage combinations of mathematical objects in patterns and sequences.Image combinations of mathematical objects in patterns and sequences.Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.Image combinations of mathematical objects in each category and sorting the categories by quantity.Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.Shop Keeper	Identify 2-D shapes on the surface of a 3-D shape	Planning officer
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Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. Data scientist	Statistics	
Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. Shop Keeper	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.	Data scientist
	Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.	Shop Keeper

Number and Place value	Jobs
Count from 0 in multiples of 4, 8, 50 and 100.	
Work out if a given number is greater or less than 10 or 100.	
Recognise the place value of each digit in a 3-digit numbers (hundreds, tens and ones)	
Solve number problems and practical problems involving these ideas.	
Addition and Subtraction	
Add and subtract numbers mentally including a 3-digit number and ones.	
Add and subtract numbers mentally including a 3-digit number and tens.	
Add and subtract numbers mentally including a 3-digit number and hundreds.	
Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.	
Multiplication and division	
Recall and use multiplication and division facts for the 3, 4 and 8 x tables.	
Write and calculate mathematical statements for multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.	
Fractions	
Count up and down in tenths; recognise that tenths arise from dividing an object into to ten equal parts and in dividing 1- digit numbers or quantities by 10.	_
Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.	
Recognise and show, using diagrams, equivalent fractions with small denominators.	
Add and subtract fractions with the same denominator within one whole.	
Compare and order unit fractions, and fractions with the same denominators.	
Solve problems that involve all of the above.	
Measurement	
Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	
Add and subtract amounts of money to give change, using both £ and p in practical contexts.	
Tell and write the time from an analogue clock and 12 and 24-hour clock.	
Geometry	
Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.	
Recognise angles as a property of a shape or a description of a turn	
Identify right angles, recognise that two right angles make a half turn, three make three quarters of a turn and four complete a turn; identify whether angles are greater or less than a right angle.	
Identify horizontal and vertical lines, and pairs of perpendicular and parallel lines.	
Statistics	

you can do by becoming an expert in this
learning objective
Auditor
Charity fundraiser
Finance officer
Auditor
Bank manager
Business project manager
Finance officer
School business manager
Stockbroker
Public finance accountant
Paramedic
Fitness instructor
Jockey
Motorsport engineer
Performance sports scientist
Performance sports scientist
Police officer
Hairdresser
Medical herbalist
Archaeologist
Agricultural engineer
Building technician
Architect

Interpret and present data using bar charts, pictograms and tables.	
Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables.	

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Year 4	
Number and Place value	Jobs you can do by becoming an expert in this learning objective
Count in multiples of 6,7,9,25 and 1000	Actuary
Order and compare numbers beyond 1000	Business adviser
Count backwards through 0 to include negative numbers.	Financial adviser
Round any numbers to the nearest 10, 100 or 1000.	Investment analyst
Addition and Subtraction	
Add numbers with up to 4 digits using the formal written method of columnar addition.	Private practice accountant
Subtract numbers with up to 4 digits using the formal written methods of columnar subtraction.	Economist
Solve addition and subtraction problems in context, deciding which operations and methods to use and why.	Financial adviser
Multiplication and division	
Recall multiplication and division facts for multiplication tables up to 12 x 12.	Anaesthetist
Use place value, known and derived facts to multiply and divide mentally, including x by 0 and 1 and dividing by 1; multiplying together 3 numbers.	Dietitian
Recognise and use factor pairs and commutativity in mental calculations.	Microbiologist
Multiply 2 digit and 3 digit numbers by a 1 digit number using formal written layout.	Pharmacist
Solve problems involving multiplication and adding, including using the distributive law to multiply 2 digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.	Physiotherapist
Fractions	
Recognise and show, using diagrams, families of common equivalent fractions.	Surgeon
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.	Helicopter pilot
Add and subtract fractions with the same denominator.	Head Chef
Recognise and write decimal equivalents of any number of tenths or hundredths.	Fitness instructor
Recognise and write decimal equivalents to ¼, ½ and ¾	Jockey
Round decimals with one decimal place to the nearest whole number.	Motorsport engineer
Compare numbers with the same number of decimal places up to two decimal.	Performance sports scientist
Solve simple money and measure problems involving fractions and decimals to two decimal places.	Butcher
Measurement	
Convert between different units of measure.	Chemical engineer
Measure and calculate the perimeter of a rectilinear figure in cm and m.	Architect

Geoscientist

Meteorologist

Estimate, compare and calculate different measures, including money in pounds and pence.	Accountant
Geometry	
Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.	Architect
Identify acute and obtuse angles and compare and order angles up to two right angles by size.	Technical architect
Identify lines of symmetry in 2-D shapes presented in different orientations.	Glassmaker
Complete a simple symmetric figure with respect to a specific line of symmetry.	Pattern cutter
Statistics	
Interpret and present discrete and continuous data using appropriate geographical methods, including bar charts and time graphs.	Zoologist
Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	Headteacher

Number and Place value	Jobs you can do by becoming an expert in this learning objective
Read and write numbers up to 1,000,000	Bank manager
Order and compare numbers up 1, 000,000	Business analyst
Interpret negative numbers in context.	Bank manager
Count forwards and backwards with positive and negative whole numbers including through zero.	Refrigeration designer
Addition and Subtraction	
Add whole numbers with more than four digits, including using formal written methods.	Auditor
Subtract whole numbers with more than four digits, including using formal written methods.	Economist
Add and subtract numbers mentally with increasingly large numbers.	Shop Keeper
Solve problems involving numbers up to 3 decimal places.	Finance officer
Multiplication and division	
Identify multiples and factors, including finding all factor pairs of a number and common factors of 2 numbers.	School business manager
Multiply numbers up to 4 digits by a 1 or 2 digit number using formal written methods.	Tax inspector
Multiply and divide mentally drawing upon known facts.	Accounting technician
Divide numbers up to 4 digits by a 1 digit whole number.	Auditor
Interpret remainders appropriate to context.	Bank manager
Multiply and divide whole numbers and those involving decimals by 10,100 and 1000.	Teacher
Recognise and use square numbers and cubed numbers and the notation for each.	Flooring fitter
Solve problems involving multiplication and division, including using knowledge of factors and multiples, squares and cubes.	Flooring fitter
Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.	Finance officer
Fractions and Decimals	
Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.	Insurance broker
Recognise mixed numbers and improper fractions and convert from one for to the other.	Baker
Add and subtract fractions with the same denominator and that are multiples of the same number.	Butcher

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.	Antique dealer
Recognise % and write percentages as a fraction with denominator 100 and as a decimal.	Beauty consultant
Solve problems which require knowing percentage and decimal equivalents of ½, ¼, 1/5, 2/5, 4/5 and those fractions with a denominator with a multiple of 10 or	Fishmonger
25.	
Measurement	
Convert between different units of metric measure.	Horticultural manager
Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.	Architect
Calculate and compare the area of a rectangle (including squares), and including using standard units, square centimetres, square metres and estimate the area of	Government planning Officer
irregular shapes.	
Geometry	
Identify 3-D shapes, including cubes and cuboids, from 2-D representations.	Animator
Know angles e measured in degrees: estimate and compare acute, obtuse and reflex angles.	Fashion designer
Draw given angles and measure them in degrees.	Fine artist
Identify angles at a point and a whole turn.	Pilot
Identify angles at a point on a straight line and half a turn.	Pilot
Identify other multiples of 90 degrees.	Carpenter
Use the properties of rectangles to deduce related facts and find missing lengths and angles.	Furniture designer
Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	Graphic designer
Statistics	
Solve comparison, sum and difference problems using information presented in a line graph.	Market research data analyst
Complete, read and interpret information in tables, including time tables.	Market research data analyst

Number and Place value	Jobs you can do by becoming an expert in this learning objective
Read and write numbers up to 10,000,000	Musician
Order and compare numbers up 10, 000,000	Textile designer
Determine the value of each digit in numbers up 10 000 000	Teaching Assistant
Round any whole number	Video editor
Use negative numbers in context and calculate intervals across 0	Auditor
Solve number and practical problems with place value.	Finance officer
Addition and Subtraction	
Solve addition and multi-step problems in contexts, deciding which method and operation to use and why.	Financial adviser
Use estimation to check answers and appropriate degree of accuracy	Management accountant
Multiplication and division	
Multiply multi – digit numbers up to 4 digits by a 2 digit number using formal written methods.	Public finance accountant
Divide numbers up to 4 digits by a 2 digit whole number.	Chemist
Interpret remainders as whole number remainders, fractions or by rounding.	Climate scientist
Use knowledge of the order of operations to carry out operations using the four operations.	Data analyst-statistician
Solve problems involving addition, subtraction, multiplication and division.	Data scientist
Multiply 1-digit numbers with up to 2 decimal places by whole numbers.	Environmental consultant
Fractions and Decimals	
Use factors to simplify fractions.	Food scientist

Use common multiples to express fractions with the same denominator.	Geoscientist
Compare and order fractions, including fractions less than 1.	Health and safety adviser
Add and subtract fractions with different denominators and mixed numbers.	Data scientist
Multiply simple pairs of proper fractions, writing the answer in its simplest form.	Forensic collision investigator
Divide proper fractions by whole numbers.	Intelligence analyst
Use the equivalence between fractions, decimals and percentages.	MP
Ratio and Proportion	
Solve problems involving the relative size of two quantities where missing values can be found integer multiplication and division facts.	Biologist
Solve problems involving the calculation of percentages. 15% of 360	Agronomist
Solve problems involving similar shapes where the scale factor is known or can be found.	Biotechnologist
Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.	Cartographer
Algebra	
Generate and describe linear number sequences	Astronomer
Express missing number problems algebraically	Chemical engineer
Find pairs of numbers that satisfy an equation with two unknowns.	Energy engineer
Measurement	
Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places.	Forensic psychologist
Use, read, write and convert between standard units, converting measurement of length, mass, volume and time.	Hydrologist
Recognise that shapes with the same area can have different perimeters and vice versa	CAD technician
Calculate the area of parallelograms and triangles.	CAD technician
Geometry	
Draw 2-d shapes using given dimensions and angles.	Aerospace engineer
Recognise, describe and build simple 3-d shapes, including making nets.	Agricultural engineer
Compare and classify geometric shapes based on their properties and sizes.	CNC machinist
Find unknown angles in any triangles, quadrilaterals and regular triangles.	Toolmaker
Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.	Toolmaker
Recognise angles where they meet at a point, are on a straight line, or are vertically opposite and find missing angles.	Naval architect
Describe positions on the full coordinate grid.	Cartographer
Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.	Materials engineer
Statistics	
Interpret and construct pie charts and line graphs and use these to solve problems.	Geotechnician
Calculate and interpret the mean as an average.	Economist