PrimaryTools.co.uk	<u>Algebra</u>	Numbers and the Number System	<u>Calculating</u>	Using and Applying Mathematics	Shape, Space and Measure	<u>Handling Data</u>
<u>ن</u>	recognise	count up to 10 objects	understand addition as finding the total of two or more	use mathematics as an integral	use everyday language to describe properties of 2-D and 3-D	sort and classify objects
ols	sequences of numbers,	read, write numbers to 10	sets of objects understand subtraction as 'taking away' objects from a	part of classroom activities represent their work with objects	shapes	represent their work
Õ	including odd	order numbers to 10	set and finding how many are left	or pictures	use everyday language to describe positions of 2-D and 3-D shapes	demonstrate the criterion they have used
yT	and even	begin to use the fraction, one-half count sets of objects reliably	add and subtract numbers of objects to 10	discuss their work	measure and order objects using direct comparison	sort objects and classify them
ar	numbers recognise a	begin to understand the place	begin to know some addition facts	draw simple conclusions from		using more than one criterion
ш	wider range of	value of each digit; use this to	solve addition/subtraction problems involving up to 10	their work	order events	understand vocabulary relating to
)ri	sequences	order numbers up to 100	objects	recognise and use a simple pattern or relationship	use mathematical names for common 3-D and 2-D shapes	handling data collect and sort data to test a
	begin to	begin to use halves and quarters	record their work use the knowledge that subtraction is the inverse of	select the mathematics they use	describe their properties, including numbers of sides and corners	simple hypothesis
sheet.	understand the role of '=' (the	and relate the concept of half of a small quantity to the concept of	addition and understand halving as a way of 'undoing'	in some classroom activities discuss their work using	describe the position of objects	record results in simple lists,
she	'equals' sign)	half of a shape	doubling and vice versa	mathematical language	distinguish between straight and turning movements, recognise right angles in turns and understand angle as a measurement of	tables, pictograms and block graphs
	begin to use	understand place value in	use mental recall of addition and subtraction facts to 10 use mental calculation strategies to solve number	predict what comes next in a	turn	communicate their findings, using
one	simple formulae	numbers to 1000	problems including those involving money and	simple number, shape or spatial	begin to use a wider range of measures including to use everyday	the simple lists, tables, pictograms
	expressed in	use place value to make	measures	pattern or sequence and give reasons for their opinions	non-standard and standard units to measure length and mass	and block graphs they have recorded
on	words	approximations	record their work in writing	explain why an answer is correct	begin to understand that numbers can be used not only to count	gather information
all	use and interpret	recognise negative numbers in	choose the appropriate operation when solving addition and subtraction problems	select the mathematics they use	discrete objects but also to describe continuous measures	construct bar charts and
5	coordinates in	contexts such as temperature	derive associated division facts from known	in a wider range of classroom activities	classify 3-D and 2-D shapes in various ways using mathematical properties such as reflective symmetry for 2-D shapes	pictograms, where the symbol
to	the first	use simple fractions that are several parts of a whole and	multiplication facts	try different approaches and find	1 1 1	represents a group of units use Venn and Carroll diagrams to
1 1	quadrant construct,	recognise when two simple	add and subtract two-digit numbers mentally	ways of overcoming difficulties	begin to recognise nets of familiar 3-D shapes, e.g. cube, cuboid, triangular prism, square-based pyramid	record their sorting and classifying
\mathbf{s}	express in	fractions are equivalent	add and subtract three digit numbers using written method	that arise when they are solving problems	recognise shapes in different orientations and reflect shapes,	of information
Levels	symbolic form,	begin to use decimal notation in contexts such as money	multiply and divide two digit numbers by 2, 3, 4 or 5	begin to organise their work and	presented on a grid, in a vertical or horizontal mirror line	extract and interpret information
Ģ	and use simple formulae	,	as well as 10 with whole number answers and	check results	describe position and movement	presented in simple tables, lists, bar charts and pictograms
Ić	involving one	recognise and describe number patterns	remainders use mental recall of addition and subtraction facts to 20	use and interpret mathematical symbols and diagrams	use a wider range of measures including non-standard units and	collect and record discrete data
APP	or two operations	recognise and describe number	in solving problems involving larger numbers		standard metric units of length, capacity and mass in a range of	group data, where appropriate, in
⋖	use and	relationships including multiple,	solve whole number problems including those	understand a general statement by finding particular examples	contexts	equal class intervals continue to use Venn and Carroll
hs	interpret	factor and square	involving multiplication or division that may give rise	that match it	use standard units of time use the properties of 2-D and 3-D shapes	diagrams to record their sorting
Maths	coordinates in all four	use place value to multiply and	to remainders use a range of mental methods of computation with all	review their work and reasoning	make 3-D models by linking given faces or edges and draw	and classifying of information
Σ	quadrants	divide whole numbers by 10 or 100	operations	develop own strategies for solving problems	common 2-D shapes in different orientations on grids	construct and interpret frequency diagrams and simple line graphs
		recognise approximate	recall multiplication facts up to 10×10 and quickly	use their own strategies within	reflect simple shapes in a mirror line, translate shapes horizontally	understand and use the mode and
<u>Key:</u>		proportions of a whole and use	derive corresponding division facts	mathematics and in applying	or vertically and begin to rotate a simple shape or object about its	range to describe sets of data
Level	1	simple fractions and percentages to describe these	use efficient written methods of addition and subtraction and of short multiplication and division	mathematics to practical contexts begin to organise their work and	centre or a vertex	ask questions, plan how to answer
		order decimals to three decimal	multiply a simple decimal by a single digit	check results	choose and use appropriate units and instruments	them and collect the data required
Level	2	places	solve problems with or without a calculator	present information and results in	interpret, with appropriate accuracy, numbers on a range of	in probability, select methods based on equally likely outcomes
		begin to understand simple ratio	check the reasonableness of results with reference to	a clear and organised way search for a solution by trying out	measuring instruments find perimeters of simple shapes and find areas by counting	and experimental evidence, as
Level	3	use understanding of place value to multiply and divide whole	the context or size of numbers	ideas of their own	squares	appropriate
		numbers and decimals by 10, 100	use known facts, place value, knowledge of operations and brackets to calculate including using all four	identify and obtain necessary	use a wider range of properties of 2-D and 3-D shapes and	understand and use the probability scale from 0 to 1
Level	4	and 1000 and explain the effect	operations with decimals to two places	information to carry through a task and solve mathematical	identify all the symmetries of 2-D shapes	understand and use the mean of
		round decimals to the nearest	use a calculator where appropriate to calculate	problems	use language associated with angle and know and use the angle sum of a triangle and that of angles at a point	discrete data and compare two
Level	5	decimal place and order negative	fractions/percentages of quantities/measurements	check results, considering whether these are reasonable	reason about position and movement and transform shapes	simple distributions, using the range and one of mode, median or
		numbers in context	understand and use an appropriate non-calculator method for solving problems that involve multiplying	solve word problems and	measure and draw angles to the nearest degree, when constructing	mean
	J. Salah	recognise and use number	and dividing any three digit number by any two-digit	investigations from a range of	models and drawing or using shapes	understand that different outcomes
	0	patterns and relationships	number	contexts	read and interpret scales on a range of measuring instruments,	may result from repeating an experiment
<u> </u>		use equivalence between fractions and order fractions and decimals	solve simple problems involving ordering, adding, subtracting negative numbers in context	show understanding of situations by describing them	explaining what each labelled division represents	interpret graphs and diagrams,
		reduce a fraction to its simplest	solve simple problems involving ratio and direct	mathematically using symbols,	solve problems involving the conversion of units and make sensible estimates of a range of measures in relation to everyday	including pie charts, and draw
	100	form by cancelling common	proportion	words and diagrams	situations	conclusions create and interpret line graphs
		factors	apply inverse operations and approximate to check	draw simple conclusions of their own and give an explanation of	understand and use the formula for the area of a rectangle and	where the intermediate values
www.I	PrimaryTools.co.uk	understand simple ratio	answers to problems are of the correct magnitude	their reasoning	distinguish area from perimeter	have meaning
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