# PlanBee Primary Maths Curriculum | Year 3 and Year 4

	Autumn Term Y3	Autumn Term Y4	Spring Term Y3	Spring Term Y4	Summer Term Y3	Summer Term Y4
Week	<b>Understanding Place</b>	Place Value and	Using Place Value	Comparing Numbers	Rounding and	Rounding and Ordering
1	<u>Value</u>	<u>Ordering</u>	<ul> <li>recognise the place</li> </ul>	• find 1000 more or less	<b>Estimating</b>	<u>Numbers</u>
	<ul> <li>recognise the place</li> </ul>	• count in multiples of 6,	value of each digit in a	than a given number	<ul> <li>recognise the place</li> </ul>	• count in multiples of 6,
	value of each digit in a	7, 9, 25 and 1000	three-digit number	<ul> <li>count backwards</li> </ul>	value of each digit in a	7, 9, 25 and 1000
	three-digit number	• find 1000 more or less	(hundreds, tens, ones)	through zero to include	three-digit number	<ul> <li>recognise the place</li> </ul>
	(hundreds, tens, ones)	than a given number	<ul> <li>compare and order</li> </ul>	negative numbers	(hundreds, tens, ones)	value of each digit in a
	<ul> <li>compare and order</li> </ul>	<ul> <li>recognise the place</li> </ul>	numbers up to 1000	<ul> <li>recognise the place</li> </ul>	<ul> <li>compare and order</li> </ul>	four-digit number
	numbers up to 1000	value of each digit in a	<ul> <li>read and write</li> </ul>	value of each digit in a	numbers up to 1000	(thousands, hundreds,
	<ul> <li>read and write</li> </ul>	four-digit number	numbers up to 1000 in	four-digit number	<ul> <li>identify, represent and</li> </ul>	tens, and ones)
	numbers up to 1000 in	(thousands, hundreds,	numerals and in words	(thousands, hundreds,	estimate numbers using	<ul> <li>order and compare</li> </ul>
	numerals and in words	tens, and ones)	• solve number	tens, and ones)	different	numbers beyond 1000
	• solve number	<ul> <li>order and compare</li> </ul>	problems and practical	<ul> <li>order and compare</li> </ul>	representations	• identify, represent and
	problems and practical	numbers beyond 1000	problems involving	numbers beyond 1000		estimate numbers using
	problems involving	• read Roman numerals	these ideas	• identify, represent and		different
	these ideas	to 100 (I to C) and know	<ul> <li>solve problems,</li> </ul>	estimate numbers using		representations
	<ul> <li>solve problems,</li> </ul>	that over time, the	including missing	different		<ul> <li>round any number to</li> </ul>
	including missing	numeral system	number problems, using	representations		the nearest 10, 100 or
	number problems, using	changed to include the	number facts, place	<ul> <li>solve number and</li> </ul>		1000
	number facts, place	concept of zero and	value, and more	practical problems that		<ul> <li>solve number and</li> </ul>
	value, and more	place value	complex addition and	involve all of the above		practical problems that
	complex addition and		subtraction	and with increasingly		involve all of the above
	subtraction			large positive numbers		and with increasingly
	• count from 0 in					large positive numbers
	multiples of 4, 8, 50 and					
	100; find 10 or 100 more					
	or less than a given					
	number					

Week	Investigating Number	Exploring Addition	Doubling and Halving	Methods of Addition	Knowing Number Facts	Using Addition and
2	Facts	add and subtract	add and subtract	add and subtract	• count from 0 in	Subtraction 1
	add and subtract	numbers with up to 4	numbers mentally,	numbers with up to 4	multiples of 4, 8, 50 and	<ul> <li>add and subtract</li> </ul>
	numbers mentally,	digits using the formal	including a three-digit	digits using the formal	100; find 10 or 100 more	numbers with up to 4
	including:	written methods of	number and ones; a	written methods of	or less than a given	digits using the formal
	- a three-digit number	columnar addition and	three-digit number and	columnar addition and	number	written methods of
	and ones	subtraction where	tens; a three-digit	subtraction where	add and subtract	columnar addition and
	- a three-digit number	appropriate	number and hundreds	appropriate	numbers mentally,	subtraction where
	and tens	<ul> <li>solve addition and</li> </ul>	• solve problems,	<ul> <li>estimate and use</li> </ul>	including:	appropriate
	- a three-digit number	subtraction two-step	including missing	inverse operations to	- a three-digit number	<ul> <li>estimate and use</li> </ul>
	and hundreds	problems in contexts,	number problems, using	check answers to a	and ones	inverse operations to
	<ul> <li>estimate the answer to</li> </ul>	deciding which	number facts, place	calculation	- a three-digit number	check answers to a
	a calculation and use	operations and methods	value, and more	<ul> <li>solve addition and</li> </ul>	and tens	calculation
	inverse operations to	to use and why	complex addition and	subtraction two-step	- a three-digit number	<ul> <li>solve addition and</li> </ul>
	check answers		subtraction	problems in contexts,	and hundreds	subtraction two-step
	<ul> <li>solve problems,</li> </ul>			deciding which	• solve problems,	problems in contexts,
	including missing			operations and methods	including missing	deciding which
	number problems, using			to use and why	number problems, using	operations and methods
	number facts, place				number facts, place	to use and why
	value, and more				value, and more	
	complex addition and				complex addition and	
	subtraction				subtraction	
Week	Mental Addition	Seeing Doubles	Partition Addition	Methods of Subtraction	Let's Add and Subtract	Using Addition and
3	<ul> <li>add and subtract</li> </ul>	• use place value, known	add and subtract	<ul> <li>add and subtract</li> </ul>	add and subtract	Subtraction 2
	numbers mentally,	and derived facts to	numbers mentally,	numbers with up to 4	numbers with up to	<ul> <li>add and subtract</li> </ul>
	including:	multiply and divide	including a three-digit	digits using the formal	three digits, using formal	numbers with up to 4
	- a three-digit number	mentally, including:	number and ones; a	written methods of	written methods of	digits using the formal
	and ones	multiplying by 0 and 1;	three-digit number and	columnar addition and	columnar addition and	written methods of
	- a three-digit number	dividing by 1;	tens; a three-digit	subtraction where	subtraction	columnar addition and
	and tens	multiplying together	number and hundreds	appropriate	estimate the answer to	subtraction where
	- a three-digit number	three numbers	estimate the answer to	<ul> <li>solve addition and</li> </ul>	a calculation and use	appropriate
	and hundreds	<ul> <li>multiply two-digit and</li> </ul>	a calculation and use	subtraction two-step	inverse operations to	<ul> <li>estimate and use</li> </ul>
	estimate the answer to	three-digit numbers by a	inverse operations to	problems in contexts,	check answers	inverse operations to
	a calculation and use	one-digit number using	check answers	deciding which	• solve problems,	check answers to a
	inverse operations to	formal written layout	• solve problems,	operations and methods	including missing	calculation
	check answers		including missing	to use and why	number problems, using	• solve addition and
	• solve problems,		number problems, using		number facts, place	subtraction two-step
	including missing		number facts, place		value, and more	problems in contexts,

	number problems, using number facts, place value, and more complex addition and subtraction  • add and subtract amounts of money to give change, using both £ and p in practical contexts		value, and more complex addition and subtraction		complex addition and subtraction	deciding which operations and methods to use and why
Week 4	Mental Subtraction • solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction • add and subtract amounts of money to give change, using both £ and p in practical contexts	Exploring Subtraction  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	• add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction • solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction • add and subtract numbers mentally, including: - a three-digit number and ones - a three-digit number and tens - a three-digit number and hundreds	Shape Angles  • compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes  • identify acute and obtuse angles and compare and order angles up to two right angles by size  • identify lines of symmetry in 2-D shapes presented in different orientations  • complete a simple symmetric figure with respect to a specific line of symmetry	Using Times Tables • recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods • solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n	Multiplying Doubles and Digits  • use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers  • multiply two-digit and three-digit number using formal written layout  • recognise and use factor pairs and commutativity in mental calculations

• measure the perimeter of simple 2-D shapes • draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them  • measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres • find the area of rectilinear shapes by counting squares • compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes  • measure the perimeter of a make 3-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them  • convert between different units of measure modelling materials; recognise 3-D shapes using modelling materials; recognise 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them  • stimate, compare and calculate different measures, including money in pounds and pence  • compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes  • draw 2-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them  • calculate different measures, including money in pounds and pence  • recognise angles as a property of 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 a complete turn; identify whether angles are greater than or less than a right angle • identify horizontal and vertical lines and pairs of perpendicular and parallel lines  • Mat is length?  • Mat is weight?  • Presenting Data  • Multiplication Problems	describe positions on a describe positions on a Describe positions on a Describe at the first quadrant describe movements etween positions as anslations of a given nit to the left/right and p/down plot specified points and draw sides to complete a given
of simple 2-D shapes	D grid as coordinates the first quadrant describe movements etween positions as anslations of a given nit to the left/right and p/down plot specified points and draw sides to
• draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them  • draw 2-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them  • draw 2-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them  • draw 2-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them  • draw 2-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them  • draw 2-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them  • draw 2-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them  • estimate, compare and calculate different measures, including money in pounds and pence  • recognise 3-D shapes in different orientations and describe them  • estimate, compare and calculate different measures, including money in pounds and pence  • recognise 3-D shapes in different orientations and describe them  • recognise 3-D shapes in different orientations and describe them  • recognise 3-D shapes in different orientations and describe them  • recognise 3-D shapes in different orientations and describe them  • recognise 3-D shapes in different orientations and describe them  • recognise 3-D shapes in different orientations and describe them  • recognise 3-D shapes in different orientations and describe them  • recognise angles as a uproperty of shape or a description of a turn or description or a turn or	the first quadrant describe movements etween positions as anslations of a given nit to the left/right and p/down plot specified points and draw sides to
make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them  or cettilinear shapes by counting squares  or compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes  or compare that two right angles are greater than or less than a right angle are greater than or less than a right angle or perpendicular and parallel lines  week  What is length?  Meek  What is length?  Meek  Multiplication Problems  or including squares) in centimetres and metres of incentimetres and metres of infifferent orientations and describe them  or ectimate, compare and calculate different measures, including money in pounds and pence  or ectimate, compare and calculate different measures, including money in pounds and pence  or ectimate, compare and calculate different measures, including money in pounds and pence  or ectimate, compare and calculate different measures, including money in pounds and pence  or ectimate, compare and calculate different measures, including money in pounds and pence  or ectimate, compare and calculate different measures, including money in pounds and pence  or ectimate, compare and calculate different measures, including money in pounds and pence  or ectimate, compare and calculate different measures, including money in pounds and pence  or ectimate, compare and calculate different measures, including money in pounds and pence  or ectimate, compare and calculate different measures, including money in pounds and pence  or ectimate, compared with calculate different measures, including money in pounds and pence  or ectimate, compared with calculate different measures, including money in pounds and pence  or ectimate, compared with calculate different measures, including money in pounds and secribe them  or ectimate, compared with calculate different measures, including money in pounds and secribe them  or ectimate, compared with calculate different measures, including and describe them  or ectimate, compared	describe movements etween positions as anslations of a given nit to the left/right and p/down plot specified points and draw sides to
modelling materials; recognise 3-D shapes in different orientations and describe them  centimetres and metres find the area of rectilinear shapes by counting squares compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes  centimetres and metres find the area of rectilinear shapes by counting squares compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes  centimetres and metres find the area of rectilinear shapes by counting squares compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes  calculate different measures, including money in pounds and pence pence  calculate different measures, including money in pounds and pence  recognise angles as a property of 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 a complete turn; identify whether angles are greater than or less than a right angle identify horizontal and vertical lines and pairs of perpendicular and parallel lines  week  What is length?  Recording Length  What is weight?  Presenting Data  Multiplication Problems  Tim	etween positions as anslations of a given nit to the left/right and p/down plot specified points and draw sides to
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different orientations and describe them  rectilinear shapes by counting squares  compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes  money in pounds and pence  recognise angles as a property of 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 a complete turn; identify whether angles are greater than or less than a right angle  identify horizontal and vertical lines and pairs of perpendicular and parallel lines  week What is length?  Recording Length  what is weight?  Presenting Data  precognise angles as a property of shape or a description of a turn  descripti	nit to the left/right and p/down plot specified points and draw sides to
and describe them  counting squares  compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes  counting squares  compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes  counting squares  compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes  counting squares  pence  property of shape or a description of a turn  eight angles, recognise that two right angles are greater that or less including than a right angle time  identify whether angles are greater than or less than a right angle  eidentify whether angles are greater than or less including than a right angle time  vertical lines and pairs of perpendicular and parallel lines  Week What is length?  Recording Length  What is weight?  Presenting Data  Multiplication Problems	p/down plot specified points nd draw sides to
• compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes      • compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes      • compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes      • properties and sizes      • identify right angles, recognise that two right angles are grake a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle      • identify horizontal and vertical lines and pairs of perpendicular and parallel lines  Week What is length?  Presenting Data  Multiplication Problems	plot specified points nd draw sides to
geometric shapes, including quadrilaterals and triangles, based on their properties and sizes    • identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle • identify horizontal and vertical lines and pairs of perpendicular and parallel lines    Week   What is length?   Presenting Data   Multiplication Problems   Tim	nd draw sides to
including quadrilaterals and triangles, based on their properties and sizes  including quadrilaterals and triangles, based on their properties and sizes  including quadrilaterals and triangles, based on their properties and sizes  including quadrilaterals and triangles and triangles and their properties and sizes  including quadrilaterals and part of poly and there make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle time identify horizontal and vertical lines and pairs of perpendicular and parallel lines  Week What is length?  Recording Length  What is weight?  Presenting Data  Multiplication Problems  Time	
and triangles, based on their properties and sizes  and triangles, based on three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle indentify horizontal and vertical lines and pairs of perpendicular and parallel lines  Week What is length?  Recording Length  Multiplication Problems  Tim	omplete a given
their properties and sizes  three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle tim eidentify horizontal and vertical lines and pairs of perpendicular and parallel lines  Week What is length?  Recording Length  What is weight?  Presenting Data  three make three quarters of a turn and disconnected to the power of the properties are greater than or less than a right angle tim vertical lines and pairs of perpendicular and parallel lines  Week What is length?  Presenting Data  Multiplication Problems	
sizes    quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle   identify horizontal and vertical lines and pairs of perpendicular and parallel lines    Week   What is length?   Recording Length   What is weight?   Presenting Data   Multiplication Problems   Time	olygon
four a complete turn; identify whether angles are greater than or less than a right angle tim  identify horizontal and vertical lines and pairs of perpendicular and parallel lines  Week What is length?  Recording Length  Multiplication Problems  Time  Four a complete turn; identify whether angles gra include tim  time  **Time**  **Presenting Data**  Multiplication Problems  **Time**	interpret and present
identify whether angles are greater than or less than a right angle identify horizontal and vertical lines and pairs of perpendicular and parallel lines  Week What is length?  Recording Length  What is weight?  Presenting Data  identify whether angles are greater than or less than a right angle time time  Vertical lines and pairs of perpendicular and parallel lines  Week What is length?  Presenting Data  Multiplication Problems	screte and continuous
are greater than or less than a right angle  identify horizontal and vertical lines and pairs of perpendicular and parallel lines  Week What is length?  Recording Length  What is weight?  Presenting Data  Are greater than or less than a right angle time  time  Presenting Data  Multiplication Problems  Time	ata using appropriate
than a right angle  identify horizontal and vertical lines and pairs of perpendicular and parallel lines  Week What is length?  Recording Length  What is weight?  Presenting Data  Multiplication Problems  Time	raphical methods,
• identify horizontal and vertical lines and pairs of perpendicular and parallel lines  Week What is length? Recording Length What is weight? Presenting Data Multiplication Problems Time	cluding bar charts and
Week       What is length?       Recording Length       What is weight?       Presenting Data       Multiplication Problems       Time	me graphs
Week     What is length?     Recording Length     What is weight?     Presenting Data     Multiplication Problems     Time	
Week     What is length?     Recording Length     What is weight?     Presenting Data     Multiplication Problems     Time	
Week         What is length?         Recording Length         What is weight?         Presenting Data         Multiplication Problems         Time	
	mes Table Fasts
	mes Table Facts recall multiplication
	nd division facts for
	ultiplication tables up
	12 × 12
to minute]   including bar charts and   tables	12 ~ 12
• estimate, compare and time graphs • write and calculate	
calculate different • solve comparison, sum   mathematical	
measures, including and difference problems statements for	
money in pounds and using information multiplication and	
pence presented in bar charts, division using the	
pictograms, tables and multiplication tables	
other graphs that they know,	

					including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods • solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects	
Week 7	Time  • tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks  • estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight  • know the number of seconds in a minute and the number of days in each month, year and	• 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	Organising Data  • 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	Using Multiplication and Division • recall multiplication and division facts for multiplication tables up 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 three numbers	Clock Watching  • tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks  • estimate and read time with increasing accuracy to the nearest minute; record and  • compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight  • know the number of seconds in a minute and the number of days in each month, year and	Dividing and Multiplying  • recall multiplication and division facts for multiplication tables up 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 three numbers  • recognise and use factor pairs and commutativity in mental calculations  • solve problems involving multiplying and adding, including using the distributive

	leap year • compare durations of events				leap year • compare durations of events	law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects
Week 8	• recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects	Multiplication and  Division Facts  count in multiples of 6, 7, 9, 25 and 1000  recall multiplication and division facts for multiplication tables up 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 three numbers  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 as n	Linking Multiplication and Division • recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods • solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and	Multiplication and Division Methods  • recall multiplication and division facts for multiplication tables up to 12 × 12  • multiply two-digit and three-digit numbers by a one-digit number using formal written layout  • use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers	• measure, compare, add and subtract: volume/capacity (I/mI)	• convert between different units of measure [for example, kilometre to metre; hour to minute] • estimate, compare and calculate different measures, including money in pounds and pence
		objects are connected to m objects	correspondence problems in which n objects are connected to m objects			

Week	Multiplying and	<b>Revising Multiplication</b>	<b>Using Division and</b>	Telling the Time	<b>Collecting and Sorting</b>	Handling Data
9	Dividing	and Division	Multiplication	<ul> <li>convert between</li> </ul>	<u>Data</u>	<ul> <li>interpret and present</li> </ul>
	<ul> <li>recall and use</li> </ul>	<ul> <li>recall multiplication</li> </ul>	<ul> <li>recall and use</li> </ul>	different units of	<ul> <li>interpret and present</li> </ul>	discrete and continuous
	multiplication and	and division facts for	multiplication and	measure	data using bar charts,	data using appropriate
	division facts for the 3, 4	multiplication tables up	division facts for the 3, 4	<ul> <li>read, write and</li> </ul>	pictograms and tables	graphical methods,
	and 8 multiplication	to 12 × 12	and 8 multiplication	convert time between	<ul> <li>solve one-step and</li> </ul>	including bar charts and
	tables	• use place value, known	tables	analogue and digital 12-	two-step questions	time graphs
	write and calculate	and derived facts to	<ul> <li>write and calculate</li> </ul>	and 24-hour clocks	using information	• solve comparison, sum
	mathematical	multiply and divide	mathematical	<ul> <li>solve problems</li> </ul>	presented in scaled bar	and difference problems
	statements for	mentally, including:	statements for	involving converting	charts and pictograms	using information
	multiplication and	multiplying by 0 and 1;	multiplication and	from hours to minutes;	and tables	presented in bar charts,
	division using the	dividing by 1;	division using the	minutes to seconds;		pictograms, tables and
	multiplication tables	multiplying together	multiplication tables	years to months; weeks		other graphs
	that they know,	three numbers	that they know,	to days		
	including for two-digit	<ul> <li>recognise and use</li> </ul>	including for two-digit			
	numbers times one-digit	factor pairs and	numbers times one-digit			
	numbers, using mental	commutativity in mental	numbers, using mental			
	and progressing to	calculations	and progressing to			
	formal written methods		formal written methods			
	• solve problems,		<ul> <li>solve problems,</li> </ul>			
	including missing		including missing			
	number problems,		number problems,			
	involving multiplication		involving multiplication			
	and division, including		and division, including			
	positive integer scaling		positive integer scaling			
	problems and		problems and			
	correspondence		correspondence			
	problems in which n		problems in which n			
	objects are connected to		objects are connected to			
	m objects		m objects			

Week	Find
10	• co
	tent
	tent
	divi
	10 e
	divi
	num
	by 1
	• re
	writ
	disc
	unit
	unit
	den
	• re
	usin
	equ
	sma
	• co
	unit

#### Finding Fractions

- count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10
- recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators
- recognise and show, using diagrams, equivalent fractions with small denominators
- compare and order unit fractions, and fractions with the same denominators
- solve problems that involve all of the above

### **Fractions and Time**

- recognise and show, using diagrams, families of common equivalent fractions
- recognise and write decimal equivalents of any number of tenths or hundredths
- find the effect of dividing a one- or twodigit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths
  read, write and

convert time between

and 24-hour clocks

analogue and digital 12-

# What's the time?

- tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24hour clocks
- estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight
- compare durations of events

# **Fractions and Decimals**

- count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten
- 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 1/4, 1/2 and 3/4
- compare numbers with the same number of decimal places up to two decimal places

#### **Fractions in Action**

- recognise and use fractions as numbers: unit fractions and nonunit 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

## **Proportion Problems**

 recognise and show, using diagrams, equivalent fractions with small denominators

• solve problems that

- involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, include non-unit fractions where the answer is a whole number
- add and subtract fractions with the same denominator
- round decimals with one decimal place to the nearest whole number
- solve simple measure and money problems involving fractions and decimals to two decimal places