Year 4 Red Kites
Maths
Spring 1

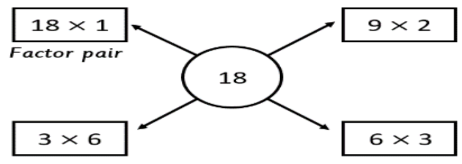
Multiplication and Division
Perimeter

What Are Factors?

A number that can be divided into another number without a remainder e.g. 3 is a factor of 12.

Factor Pairs are two numbers that when multiplied together give a particular product.

Finding Factors



The factors of 18 are: 1, 2, 3, 6, 9 and 18

	Key Vocabulary	Definition
Multiplication and Division	division	Breaking a number down into equal pats
	equal groups of	Groups are called equal groups if they have the same number of objects.
	factors	A number that can be divided into another number without a remainder. e.g. 3 is a factor of 12.
	multiplication	When you take a number and add it a given amount of times to another number.
	place holders	A zero that is holding a place and no other digit goes in that space.
	power of 10	Numbers that can be formed by multiplying 10 times itself.
	product	When multiplying two factors together, the answer is the product. e.g. 3 x 4 = 12.
Perimeter	perimeter	The distance around the outer edge of a closed 2D shape.
	polygons	A closed 2D shape with straight sides.
	rectangles	A 2D shape that has opposite sides of equal length.
	rectilinear	A shape that has straight sides that meet at right angles.
Length	equivalent	Same value, different appearance.
	kilometre	A unit to measure length and distance. 1,000 metres (km)
	length	A measurement which identifies the distance between two points.
	measure	Find the size, quantity, or amount of something by using a tool, or to be a certain size.
	metre	A unit to measure length and distance. 100 centimetres (m)

Multiplication Formal methods to

multiply a two-digit number by a one digit number and a three digit number by a one digit number.

Expanded

	T	O	
	2	1	
×		4	
		4	(1 × 4 = 4)
	8	0	(20 × 4 = 80)
	8	4	

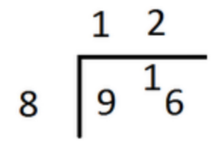
Compact Method

	H	T	O
	2	5	1
×			3
	7	5	3
	1		

Division Formal methods to

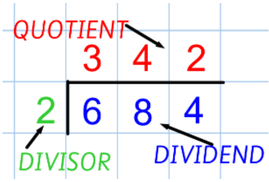
divide a two-digit number by a one digit number and a three digit number by a one digit number.

Short Division



Always start on the left!

Division vocabulary



Multiplying and Dividing by a Power of 10

When you multiply by 10 the digits all move one place to the left and a zero is used as a place holder in the empty spaces. When you multiply by 100, all the digits move two places to the left and zeros are used as place holders.

21 x 10 = 210

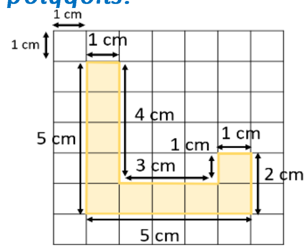
21 x 100= 2100

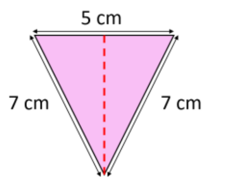
When you divide by 10 the digits all move one place to the right. When you divide by 100, all the digits move two places to the right.

310 ÷ 10 = 31

2500 ÷ 100 - 25

Finding Perimeters of rectilinear shapes and polygons.





5 cm + 7 cm + 7 cm = 19 cm

1 cm + 4 cm + 3 cm + 1 cm + 1 cm + 2 cm + 5 cm + 5 cm = 22 cm

Fractions

Fractions show equal parts of a whole.

The numerator shows how many of the equal pieces you have.

The denominator shows how many equal parts the whole is split into.