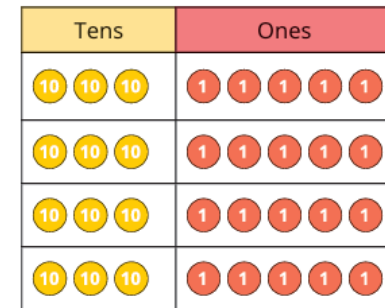


Year 3 Magpies Mathematics Spring 1

Number Multiplication and Division Measurement Length and Perimeter

Multiplication

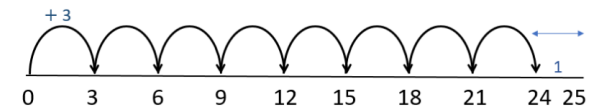


$$35 \times 4$$

Multiplication is the same as repeated addition. This diagram represents 35×4 . By portioning, it is clear there are 12 tens and 20 ones. These would need some exchanges to total 140.

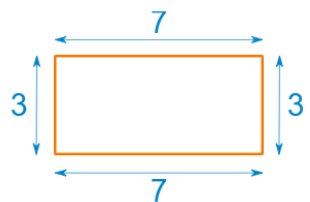
Division and remainders

Division is the process of sharing things out into equal groups. Sometimes there is some left over which cannot be shared equally called a remainder. 25 divided by 3 would equal 8 with a remainder of 1.



Perimeter

The perimeter is the distance around a two-dimensional shape. In the rectangle below, the perimeter $3 + 7 + 3 + 7 = 20$



	Key Vocabulary	Definition
Multiplication and division	array	An array is an orderly arrangement (displayed in rows and columns) that is used as a visual tool for demonstrating multiplication and division.
	conversion	To change a value or expression from one form to another.
	digit	A single symbol used to make a numeral. 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9 are the ten digits we use to make numbers.
	divisor	The number that a larger number is divided by.
	equal	The same amount or value: four and four is equal to six and two.
	exchange	An exchange is when a value is changed for example one ten can become ten ones.
	partition	This is when a number is split into parts. Example: 32 can be partitioned into 3 tens and 2 ones or 2 tens and 12 ones.
	related facts	Applying a simpler mathematical calculation to solve others, for example using 3×4 is 12 to solve 30×4 as 120.
	remainder	An amount left over after division. It is always smaller than the divisor
	scale	The ratio of the length in a drawing (or model) to the length on the real thing.
Measurement	systematically	It is according to a fixed plan or system; methodically.
	calculate	To work out a missing length using other information, for example cutting 40cm of string from a metre would require a calculation to solve how much is left.
	centi-	A prefix which means a hundredth of. 1cm is $1/100$ of a metre
	equivalent	The distance is equal but the way it is measured has been changed. For example, a piece of string which measures 0.8 m is 80 cm.
	measure	To use a ruler to accurately read how long a distance is.
	perimeter	The total distance around a two-dimensional shape.
	metre	A metre is a unit of measurement for length. 100 cm makes up a
millimetres	There are ten millimetres in a centimetre and a thousand in a metre.	