

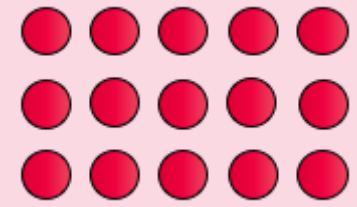
Maths, Year 3, Spring 1

This term I will be learning and practicing

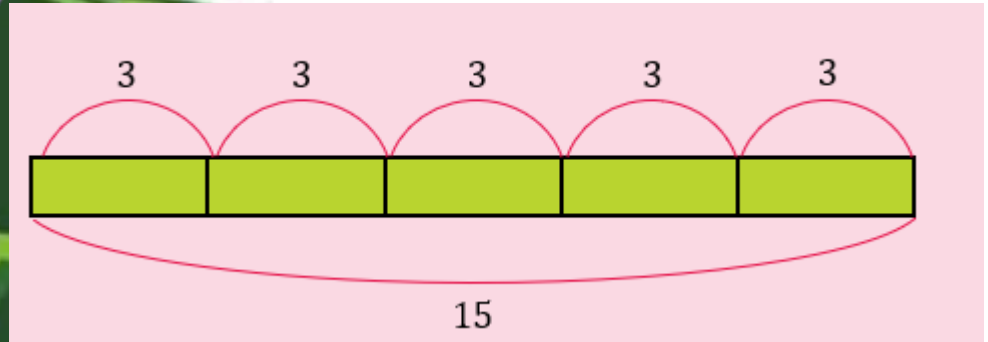
Unit
6: Multiplication and
Division

Understanding multiplicative relationships: commutativity and inverse.

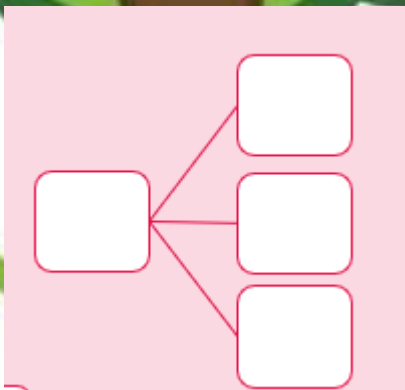
Exploring multiplication and division facts for 2, 3, 4, 5, 6, 8 and 10



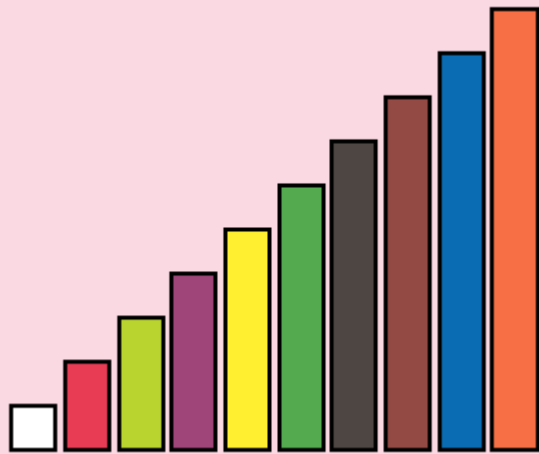
Array



Bar model



Part-Whole model



Cuisenaire rods

STAR Words

Unit 6: Multiplication and Division

array	An arrangement of counters or numbers, in columns and rows, used to represent multiplication and division
bar model	a drawing that uses boxes or bars to show numbers and how they are related.
columns	A vertical arrangement of numbers or objects
commutative	A property of addition and multiplication. It does not matter in which order the addends or factors are added or multiplied; the result will be the same.
Cuisenaire	small, coloured blocks that each have a different length, helps us see and compare numbers.
division	The process of partitioning a whole into equal parts
double	To multiply by two or add a value to itself.
equal groups	Groups that have the same number of things in each.
equal parts	when something is split into pieces that are the same size.
equivalent	Equivalent means having the same value. Equivalent fractions have the same value.
factor	A number, that when multiplied with one or more other factors, makes a given number.
fact family	A group of numbers that are all related because they use the same three numbers in addition and subtraction or multiplication and division. They "belong together" like a family.
inverse	opposite operation that 'undo' each other
known	A fact which has been committed to memory (or very fast recall) and can be applied fluently to various calculation strategies.
groups of	how many sets there are and how many are in each set.
multiplication	One of the four mathematical operations.
part	A piece/smaller bit of something bigger
product	The result you get when you multiply two numbers.
rows	a line of things that go side to side (left to right)



3×7

2×7

7×2

7×3

9×5

5×8

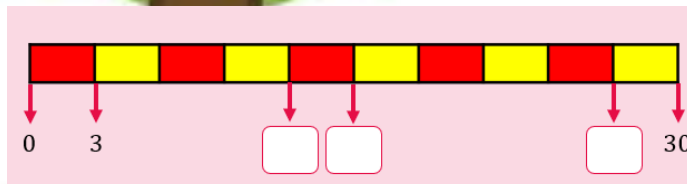
8×5

5×9

Multiplication



Factors and the product



Counting stick

STAR Words

Unit 6: Multiplication and Division	two times as many	When you have double the amount of something.
	unknown	a number or value we do not know yet.
	value	how much something is worth in a number.
	whole	all of something



$$15 = 5 \times 3$$

$$0 \div 9 = 0$$

$$8 = 8 \times 1$$

$$3 = 21 \div 7$$

$$0 = 9 \times 0$$

$$15 \div 3 = 5$$

$$21 = 7 \times 3$$

$$11 = 55 \div 5$$

$$55 = 5 \times 11$$

$$8 \div 8 = 1$$

Division and Multiplication

What would my array look like?

