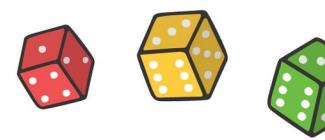
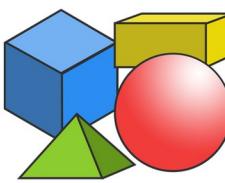
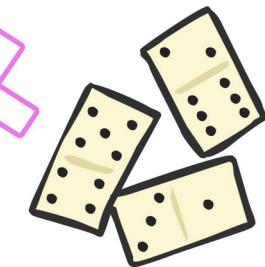




1 6



1 



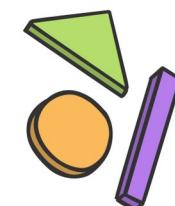
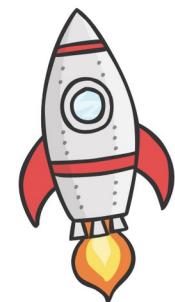
Shelton Infant School

Calculation Policy



6

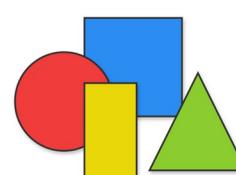
Written by C. Brierley
January 2019



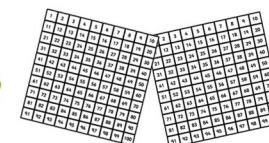
%



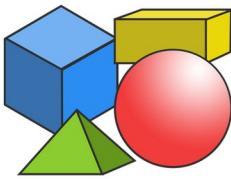
3



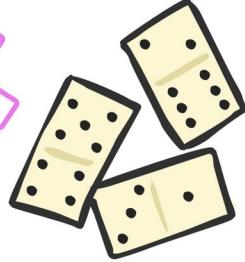
%



16

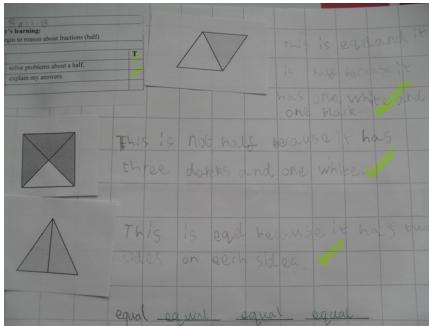


1 X



3

Building firm foundations in the Early Years through exploration and play.



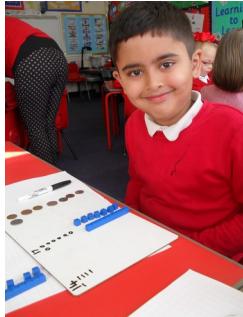
Maths - important to us?



Concepts covered in greater depth - ensure understanding is embedded before moving on.



Regular opportunities to reason about choices and develop mathematical language.



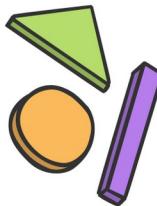
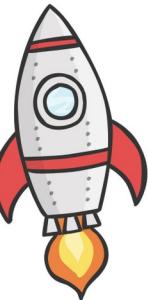
Hands on maths - practical and engaging.
Always begin with concrete.



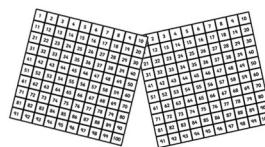
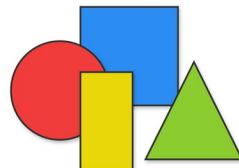
Recap cards to build on fluency.
Challenge cards - challenge for all pupils.

School Infant School	
Mathematics Early Years	Mathematics Early Years 1 Year 2 Working at the expected standard
Identify and name 2D shapes, including circles, rectangles, squares and triangles.	Identify and name 2D shapes, including circles, rectangles, squares and triangles.
Compare numbers from 0-100 using the < and > signs, including length, height and weight.	Compare numbers from 0-100 as words (including length, height and weight).
Write the last two numbers to 100 as words (e.g. 91, 92, 93, 94, 95, 96, 97, 98, 99, 100).	Write the last two numbers to 100 as words (e.g. 91, 92, 93, 94, 95, 96, 97, 98, 99, 100).
Use the inverse of addition and subtraction to solve missing number problems.	Use the inverse of addition and subtraction to solve missing number problems.
Recall the 2 times table.	Recall the 2 times table.
Recall the 5 times table.	Recall the 5 times table.
Recall the 10 times table.	Recall the 10 times table.
Use and correctly write multiplication statements (include arrays).	Use and correctly write multiplication statements (include arrays).
Recall and use multiplication facts for 2, 5 and 10.	Recall and use multiplication facts for 2, 5 and 10.
Recall and use division facts for 2, 5 and 10.	Recall and use division facts for 2, 5 and 10.
Use multiplication vocabulary to describe position, direction and movement (e.g. turn, turn, turn, clockwise and anticlockwise).	Use multiplication vocabulary to describe position, direction and movement (e.g. turn, turn, turn, turn, turn, turn, clockwise and anticlockwise).
Put and answer questions about data e.g. picture graphs, tally charts, line graphs and simple tables.	Put and answer questions about data e.g. picture graphs, tally charts, line graphs and simple tables.
Recall and use multiplication facts for the 3 times table.	Recall and use multiplication facts for the 3 times table.
Write 3 digit numbers in numerals.	Write 3 digit numbers in numerals.
Read 3 digit numbers in numerals.	Read 3 digit numbers in numerals.
Read 3 digit numbers where not all the numbers are given (e.g. in between zeros).	Read 3 digit numbers where not all the numbers are given (e.g. in between zeros).
Recall the relationships between addition and subtraction and use addition statements as starting points for subtraction.	Recall the relationships between addition and subtraction and use addition statements as starting points for subtraction.

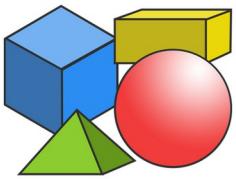
Teachers to take ownership over progression of maths skills, planning and assessment.
Quality first teaching.



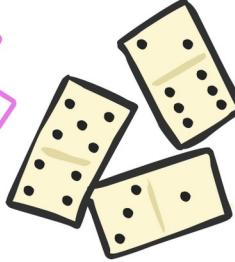
3



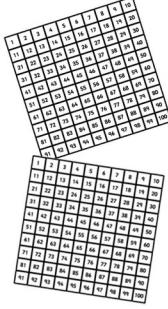
16



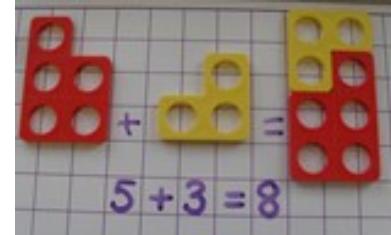
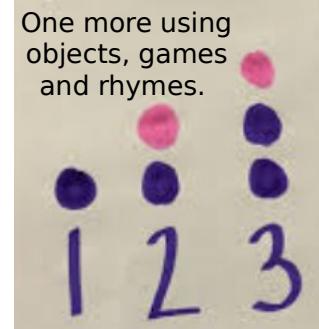
1



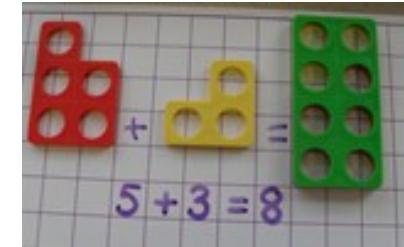
Progression and Methods for Teaching Addition



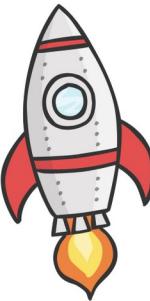
Songs and rhymes focusing on counting forwards.



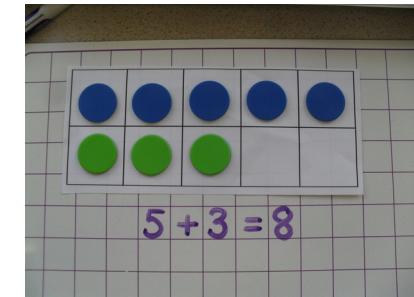
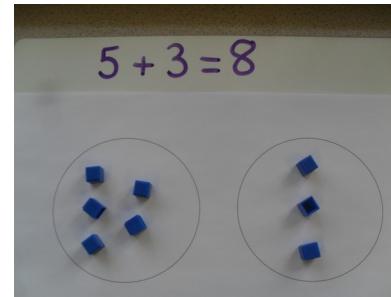
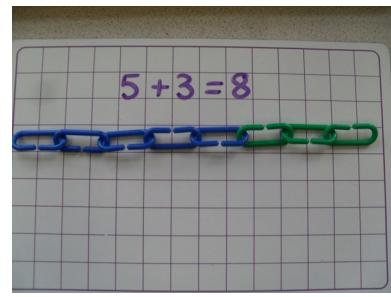
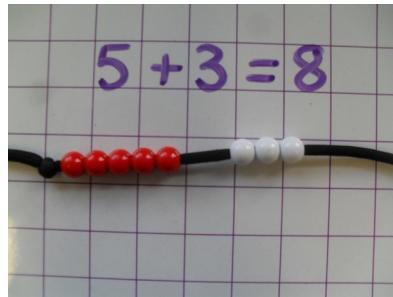
Combining Numicon pieces.



3

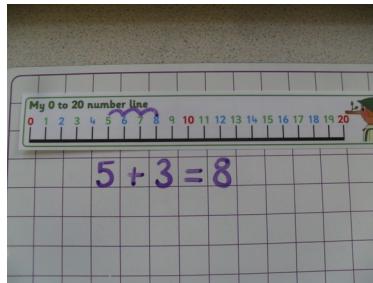


6



Using bead strings and objects. Lining up objects, moving to count and grouping objects together to find a total.

Using a



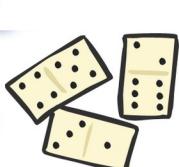
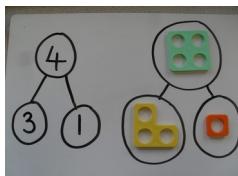
Counting on using a number line or 100 square.



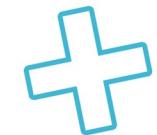
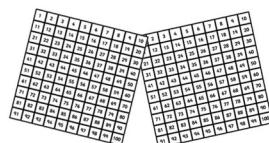
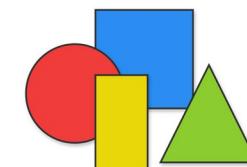
Using 'ones' jottings.

Exploring part whole method and bar modelling.

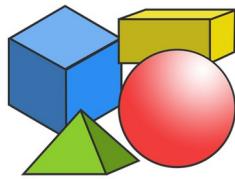
8	
5	3



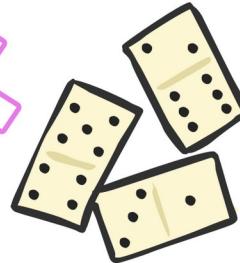
3



1 6

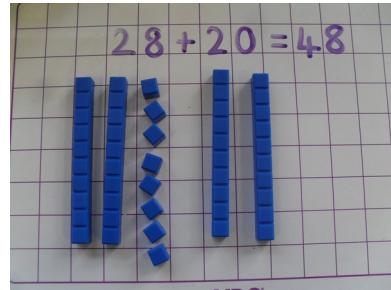


1

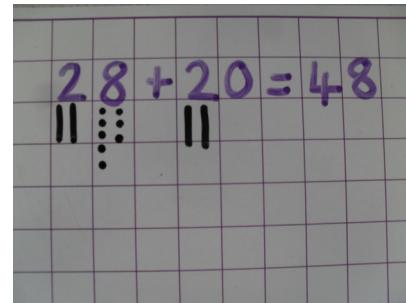


Progression and Methods for Teaching Addition - Continued

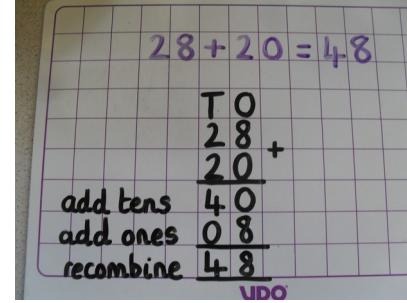
Using Base 10



Missing number



Using Base 10 jottings.



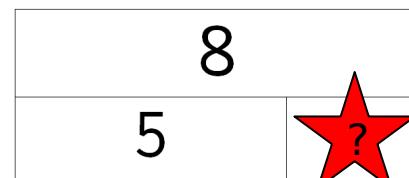
Expanded column addition - Year 2 only

3

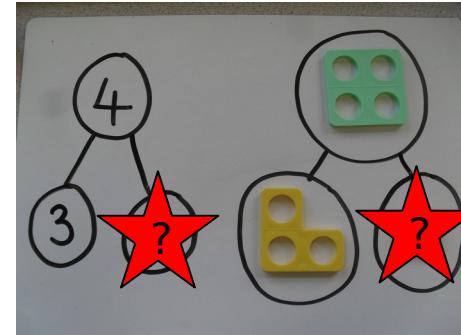
6



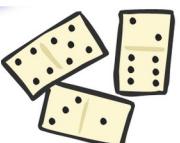
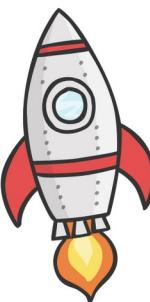
7 and ? = 9
Using Numicon shapes.



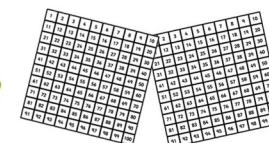
Explore using Bar Modelling and Part Whole Model.



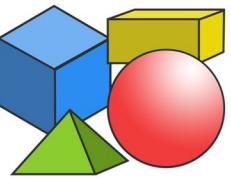
Counting on or back in ones and tens.



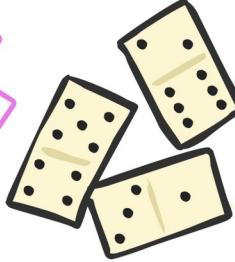
3



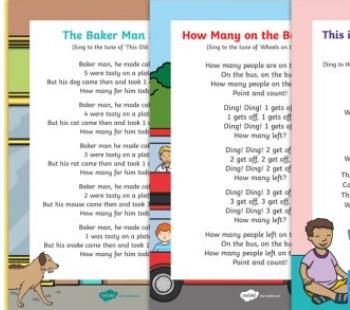
16



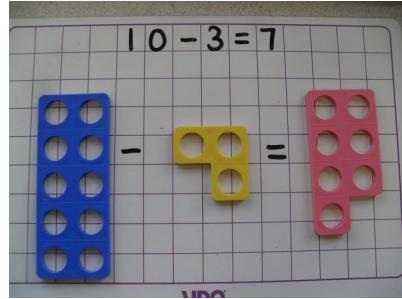
1



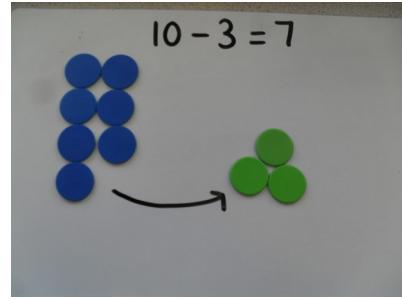
Progression and Methods for Teaching Subtraction



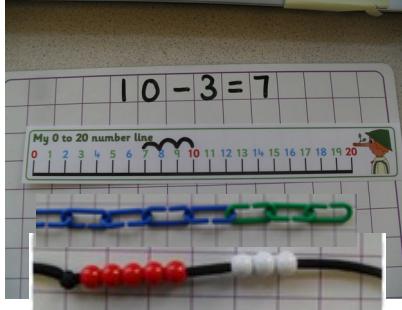
Songs and rhymes.



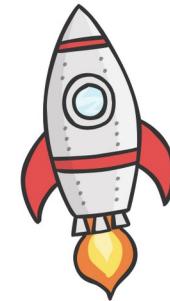
Using Numicon shapes.



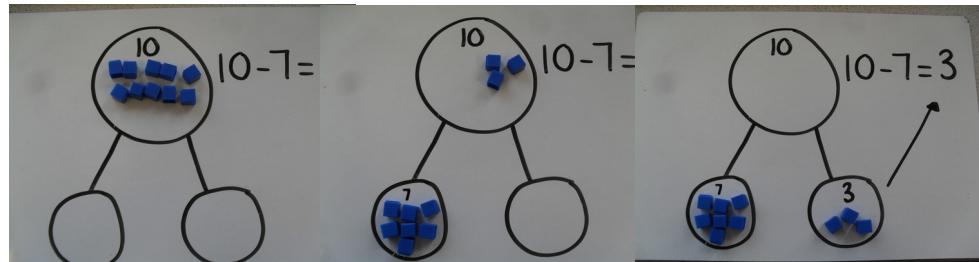
Using objects, counters, bead strings and number lines.



3

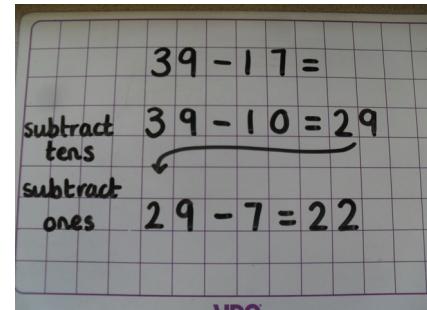
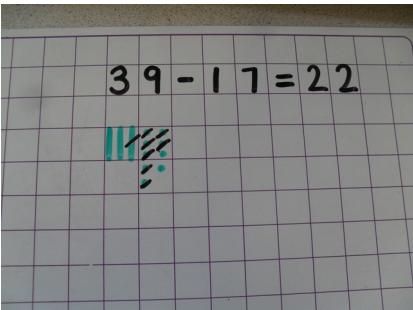


6

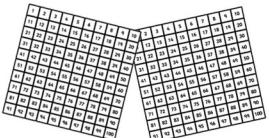


Using the Part Whole method

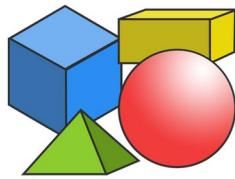
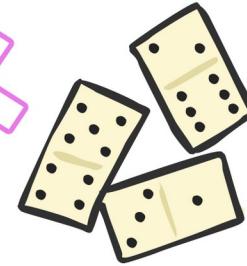
Using Base 10 jottings.



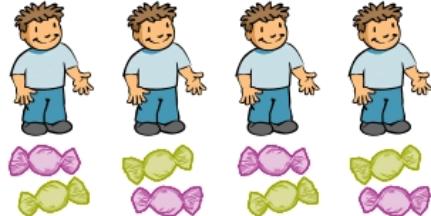
Partitioning.



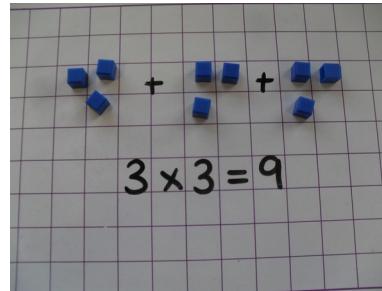
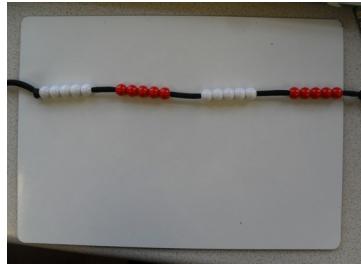
Expanded column subtraction.
Year 2 only.

**1 6****1****3**

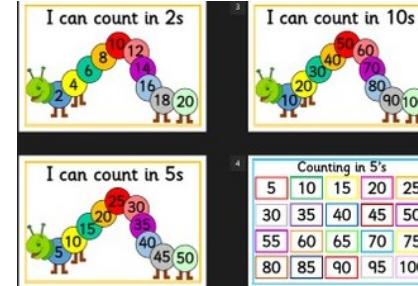
Progression and Methods for Teaching Multiplication



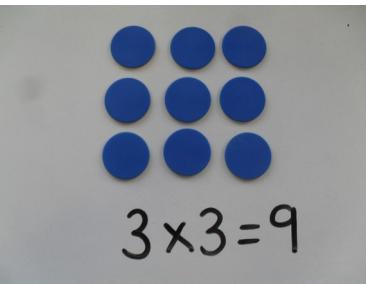
Practical multiplication - We all have 2 sweets each. How many do we have altogether?



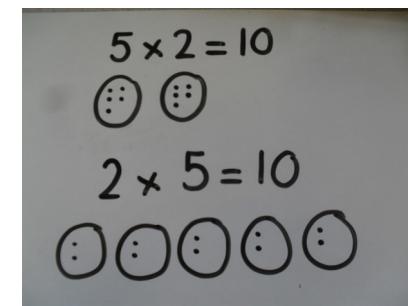
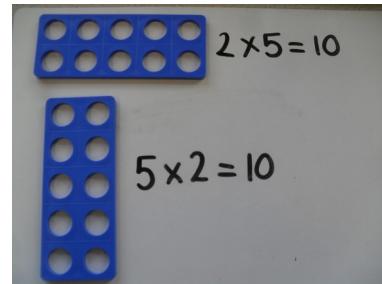
Repeated addition and grouping



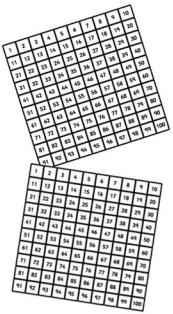
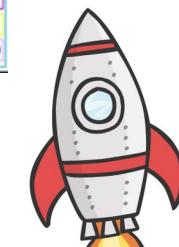
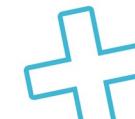
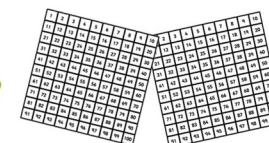
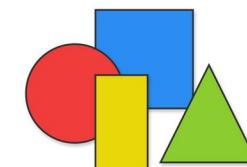
Counting in 2s, 5s and 10s



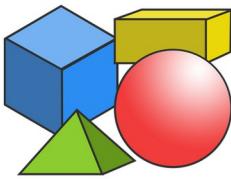
Arrays



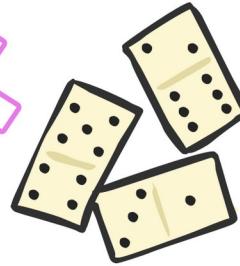
Circle and spots jottings

**6****3**

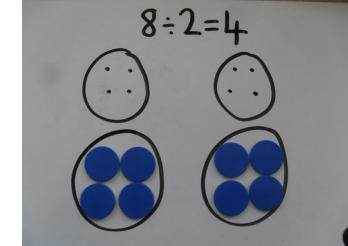
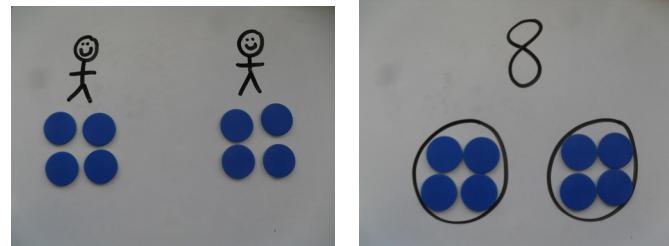
16



1



Progression and Methods for Teaching Division



Progression and Methods for Teaching Fractions

Practical division - How many do we get each?

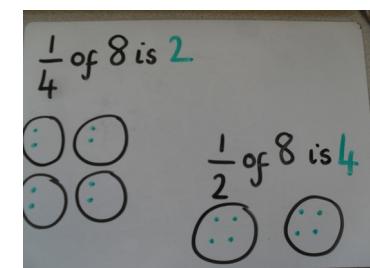
Sharing objects into equal groups.



Discussing fractions through play and practical contexts.



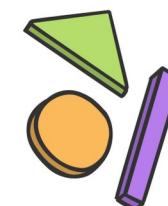
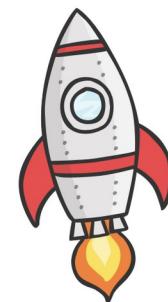
Fractions of shapes



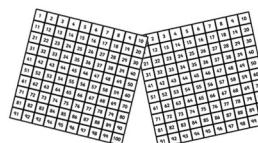
Circle and dots jottings. Finding the fraction of a number.

The denominator tells us how many circles to draw and the numerator tells us how many groups to look in.

3

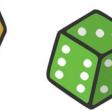
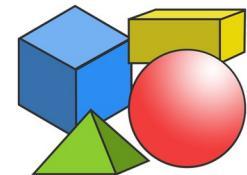


3

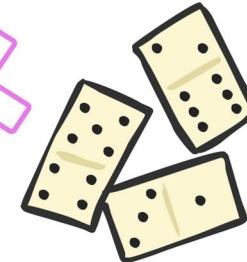




1 6



1 +



Vocabulary

Addition

add
addition
total
more than
count on
plus
increase
greater than

Subtraction

take away
subtraction
subtract
tens
ones
hundreds
symbol
count back
fewer
decrease
less than

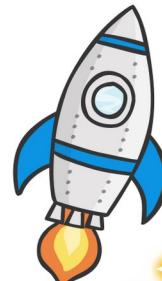
Multiplication

multiply
multiplication
times
lots of
count in
array
repeated addition
times tables
groups of

Division and Fractions

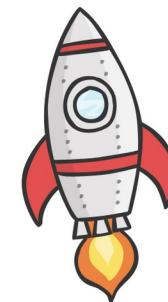
divide
divison
share/sharing
equal
fair
the same
remainder
whole
numerator
denominator
halves/halving
quarters
thirds
equivalent

6



equal to, equals, calculation, column, inverse, symbol, ones, tens, hundreds

3



%



3

