Maths - Year 2

Calculating 9: Learning times tables and multiplying through arrays

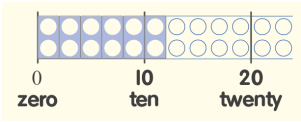
Key Vocabulary	
multiplying	Repeated adding of a number to find 'so many lots of something', e.g. 3 lots of 4 = 4 + 4 + 4 = 3 x 4 = 12.
Array	A rectangular arrangement of objects or numbers in rows and columns. 
Product	The result of multiplying two or more numbers together.
Commutative property	When adding or multiplying 2 numbers, the answer will be the same no matter which order the numbers are in.
Equal, equivalent	Different ways of representing the same value, e.g. 6 + 2 is equivalent to 8.
Equation	A statement that shows that two expressions are equal e.g. 6 + 2 = 8.
Times table	A list or table that shows the results of multiplying certain numbers.

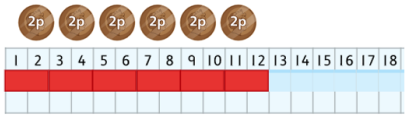
Mathematical Skills

- Recall some multiplying facts from 2,3, 5 and 10 times tables.
- Work in an organised way to build arrays.
- Describe an array with two multiplying sentences.
- Derive a corresponding commutative fact when given a multiplying sentence.

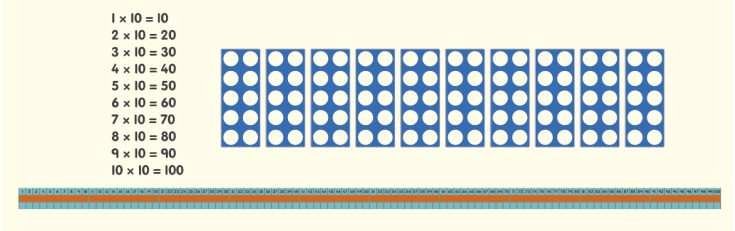
Mathematical Methods

- Using 'x2', 'x5', and 'x10' to calculate amounts of money with 2p, 5p and 10p coins e.g. 6 x 2p.



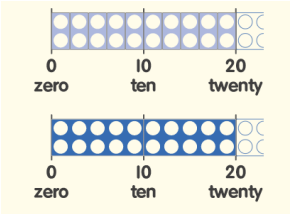


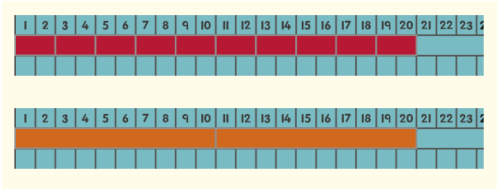
- Writing the 10 times table.

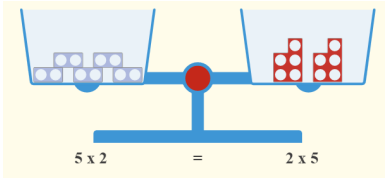


- Writing the 2, 3 and 5 times tables.

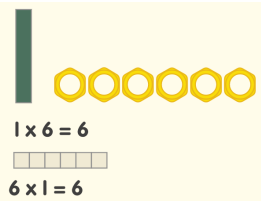
- Beginning to notice that multiplying is commutative, using money e.g. 2p x 5p = 5p x 2p.

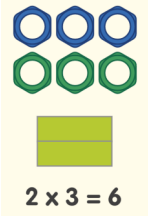


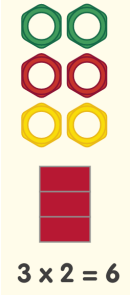




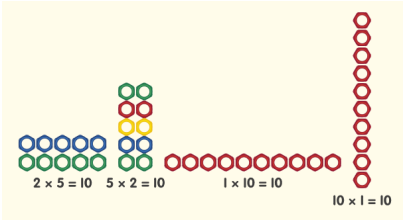
- Making arrays for 6, noticing the commutative property of multiplying.







- Making arrays for 10.



Can you..?

- Can you tell me the product of 7 and 5? Can you write the number sentence? Can you show this using number rods?

- Here is a model for 3 x 10. Can you make a model for 10 x 3. what do you notice about these two number sentences?

- Can you answer these questions?

$9 \times 10 =$

$6 \times 3 =$

$9 \times 3 =$

$7 \times 5 =$

$8 \times 2 =$