Maths - Year 2

Calculating 15: Introducing dividing as 'How many...in...?'

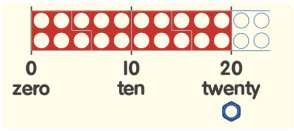
Key Vocabulary	
Multiplying fact	A multiplication sentence e.g. 2 x 3 = 6.
Inverse	The reverse or the opposite.
Connection	A link between two or more things.
Product	The result of multiplying.
Dividing...into...	Grouping or sharing a number or amount into equal parts.
Groups of	Groups with an equal amount of parts e.g. 4 groups of 3.

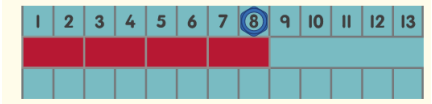
Mathematical Skills

- Explain multiplying as putting lots of equal groups together and dividing as undoing this by breaking the product up into equal-sized groups or parts.
- Use the inverse relationship between multiplying and dividing to help them think about dividing questions.
- Recognise that dividing can be expressed in different words e.g. 'by', 'how many...in?', 'divided into'.
- Use their knowledge of the 2s, 3s, 5s and 10s sequences to model their working on number lines.
- Read and write dividing sentences to express their solutions.

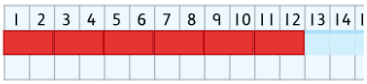
Mathematical Methods

- Exploring 'how many...in...?' with sequences of 5s, 2s, 3s and 10s.





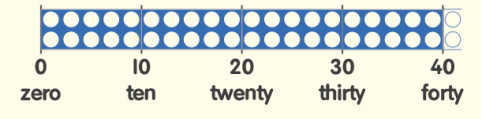
- Introducing the dividing symbol e.g. how many groups of two are in twelve?



$12 \div 2 = 6.$

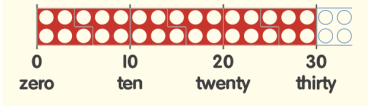
$2\overline{)12}$ 6

- Using the inverse relationship between multiplying and dividing with the 10s sequence e.g. A moon buggy has 10 wheels. If there are 40 wheels, how many moon buggies are there?



'$4 \times 10 = 40$', '$40 \div 10 = 4$' and $10\overline{)40}$ 4.

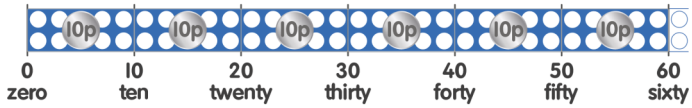
- Using the inverse relationship between multiplying and dividing with the 5s sequence e.g. 6 x 5 = 30, 30 ÷ 5 = 6.



- Using inverse to solve empty box multiplying number sentences.

☐ X 10 = 30

- Working with 10p coins, finding 'how many tens in…? E.g. how many 10p coins would we need to buy a toy costing 60p?

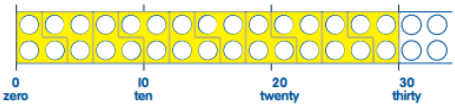


- Working with 5p coins, finding 'how many fives in …?' E.g. A toy costs 25p. How many 5p coins will be need to buy it?

Can you..?

- How many groups of 5 are there in 45? Can you use numbers rods to show me?
Can you write the number sentence?

- Can you write a dividing number sentence for this model? Can you also write a multiplying sentence?



- Can you write some dividing and multiplying number sentences using only the numbers on the cards?

6	10	60