Maths - Year 3

Calculating 16: Making connections between dividing into equal parts and calculating with fractions

Key Vocabulary			
Share into equal parts	Dividing an amount into group of the same size.		
Remainder	Something that has been left over when other parts have been used.		
Horizontal	A straight line, parallel to the horizon.		
Partitioning	Splitting a number in different ways e.g. 27 = 20 tens and 7 ones, 20 + 7.		
Halve/Half	Divide an amount into two equal parts.		
Quarter	Divide an amount into four equal parts.		

Mathematical Skills

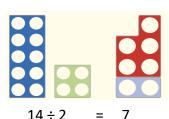
- Understand that equal numbers can be shared into two equal parts.
- Understand that odd numbers can't be shared into two equal parts and there will always be 1 remaining.
- Understand that, when halving odd numbers, the remaining 1 can't always be physically cut in half in a real life context.
- Understand that dividing by 2 or 4 is the same as finding a half or a quarter.

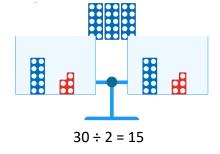
Mathematical Methods

- Introducing fractions in a dividing context e.g. sharing carrots out between to rabbits.

Number of carrots to share	Number of carrots for each rabbit	Dividing sentence	Fraction sentence
5	2 1/2	5 ÷ 2 = 2 ½	½ of 5 = 2 ½
6	3	6 ÷ 2 = 3	½ of 6 = 3
7	3 1/2	7 ÷ 2 = 3 ½	½ of 7 = 3 ½
8	4	8 ÷ 2 = 4	½ of 8 = 4
9	4 1/2	9 ÷ 2 = 4 1/2	% of 9 = 4 %

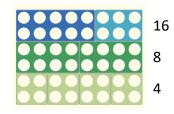
- Halving numbers, and multiples of 10.





- Finding a quarter by dividing by 4 (or halving and halving again).

 $16 \div 4 = 4$



Can you..?

- Molly has 2 horses and 5 carrots. If she shares the carrots equally, how many carrots will each horse get?
- Solve a) half of 16 b) half of 28 c) half of 54
- Draw the coins you would need if you had half of 50p
- Sarah has two slices of toast. She cuts them both in half and has 4 halves. How many halves of toast would she have if she started with 12 slices of toast?
- What is 1 quarter of 40?

-How many whole oranges will there be if there are 16 quarters?