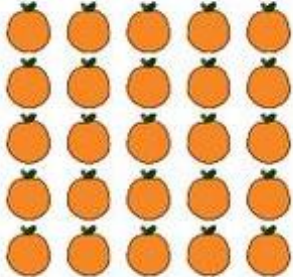
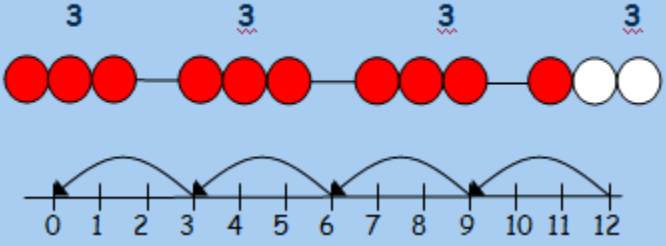


Progression in Calculation - Division

Mental Calculations: *Children's mental recall is the building blocks of all number work. These are developed from foundation stage and continue throughout the school. Moves to written methods do not replace the need to teach and revisit mental strategies.*

This link takes you to a set of videos explaining the strategies in our progression document.

<https://www.ncetm.org.uk/resources/43589>

Year group	expectations	Models, images and links
1	<ul style="list-style-type: none"> Begin to understand division facts linked to 2x, 5x and 10x table 	
2	<ul style="list-style-type: none"> Recall and use division facts linked to 2x, 5x and 10x table, including recognising odd and even numbers Understand and use \div and $=$ signs Use concrete objects, pictorial representations and arrays to divide in 2s, 5s and 10s Understand that division is not commutative Understand that division is the inverse of multiplication 	<p>a 25 oranges shared between 5:</p>  <p>$25 \div 5 = \underline{\quad}$</p>
3	<ul style="list-style-type: none"> Recall and use division facts for 2x, 5x, 10x, 3x, 4x and 8x tables Calculate division statements for times tables they know using mental methods Continue to use pictorial representations, apparatus and numberlines to solve division problems moving to short division when ready 	<p>$12 \div 4 = 3$</p> 

<p>4</p>	<ul style="list-style-type: none"> • Recall and use division facts for 2x, 5x, 10x, 3x, 4x, 8x, 6x, 7x and 9x tables • Use place value and known facts to divide mentally • Become fluent with short division 	<p>98 ÷ 7 becomes</p> $\begin{array}{r} 14 \\ 7 \overline{) 98} \end{array}$ <p>Answer: 14</p>
<p>5</p>	<ul style="list-style-type: none"> • Know division facts for all tables to 12x12 • Divide numbers mentally drawing on known facts • Divide 4 digit numbers by 1 digit numbers using short division, interpreting remainders appropriately • Divide whole numbers and those involving decimals by 10, 100 and 1000 	

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- Divide numbers up to 4 digits by a 2 digit number using long division and interpreting remainders as whole numbers, fractions or decimals
- Continue to use short division where appropriate

432 ÷ 15 becomes

$$\begin{array}{r} 28 \\ 15 \overline{) 432} \\ \underline{300} \quad 15 \times 20 \\ 132 \\ \underline{120} \quad 15 \times 8 \\ 12 \end{array}$$

$$\frac{\cancel{12}}{\cancel{15}} = \frac{4}{5}$$

Answer: $28 \frac{4}{5}$

Vocabulary for Division

one each, two each, three each... group in pairs, threes... tens equal groups of divide, division, divided by, divided into remainder factor, quotient, divisible by inverse dividend, divisor