## Key Stage 1 – Division



## Key Stage 2 – Division

Y3	Y4								
<ul> <li>Recall and use division facts for 3, 4, and 8 times tables.</li> <li>Continue with repeated subtraction on a vertical number line.</li> <li>Write and calculate mathematical statements for division using the tables they know.</li> <li>Introduce grouping method before short division, encourage children to a statement of the statement of</li></ul>	<ul> <li>Recall and use all division facts for all tables up to 12 (Including dividing by 1).</li> <li>Continue with short division method.</li> </ul>								
<ul> <li>Introduce grouping method before short division, encourage children to estimate answers before attempting calculation. Create fact box to encourage efficient grouping e.g. not always groups of 10 - 1x, 2x, 5x, 10x, 20x, 50x, 100x.</li> <li>13</li> </ul>	4)7 <sup>3</sup> 2       5)18 <sup>3</sup> 5       4)87 <sup>3</sup> 2         • Progressing to short division with remainders.								
<ul> <li>5) 65 -50 15 -15 (5 x 3) 0</li> <li>Introduce short division, with exact answers.</li> <li>3 2 3 9 6</li> <li>Progressing to short division involving carrying, with exact answers.</li> </ul>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								
<ul> <li>National Curriculum requirements: Division questions based on multiplication tables they know.</li> <li>Divide 2 digits by 1 digit, progressing to formal written methods.</li> <li>The National Curriculum statutory requirements for Year 3 and the use of written methods are not clear therefore our guidance for Year 3 has been based on the skills required to access Year 4 statutory requirements.</li> </ul>	<ul> <li>National Curriculum requirements:</li> <li>Divide 2 digits by 1 digit and 3 digits by 1 digit becoming fluent with formal written method of short division with exact answers and progressing to remainders.</li> <li>The National Curriculum statutory requirements for Year 4 and the use of written methods are not clear therefore our guidance for Year 4 has been based on the skills required to access Year 5 statutory requirements.</li> </ul>								

## Key Stage 2 – Division

• Consolidate the use of the formal written method of short division.

6

Y5

5

### National Curriculum requirements:

Divide 2 digits by 1 digit. Divide 3 digits by 1 digit. Divide 4 digits by 1 digit.

Children interpret the remainders appropriately for the context. e.g. as fractions, decimals or by rounding  $98\div4 = 98/4 = 24r^2 = 24\frac{1}{2} = 24.5$  rounded to 25

Divide whole numbers and those involving decimals by 10, 100, 1000.

# Y6

• Consolidate short division.

• Children should be able to interpret remainders as whole number remainders, fractions or by rounding, as appropriate for the context.



• Introduce long division.

432 ÷ 15 becomes			432 ÷ 15 becomes					432 ÷ 15 becomes								
		2	8	r 12				2	8					2	8	· 8
15	4	3	2		1	5	4	3	2		1	5	4	3	2	• 0
	3	0	0				3	0	0	15×20			3	0	$\downarrow$	
	1	3	2				1	3	2				1	3	2	
	1	2	0				1	2	0	15×8			1	2	0	$\downarrow$
		1	2					1	2					1	2	Ò
														1	2	0
						_12 _15	=	<u>4</u> 5								0
Answer: 28 remainder 12			Answer: 28 <del>4</del> 5				Answer: 28.8									

**N.B:** The above examples are taken from the National Curriculum for Mathematics appendix.

#### National Curriculum requirements:

Divide numbers up to 4 digits by a 2 digit number using the formal written method of short division where appropriate.

Divide up to 4 digits by a 2 digits whole number using the formal written method of long division.