



C.E. PRIMARY ACADEMY (HANDSWORTH)

Calculation Policy





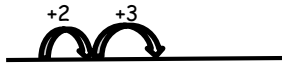
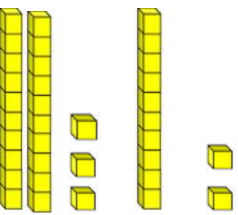




Addition

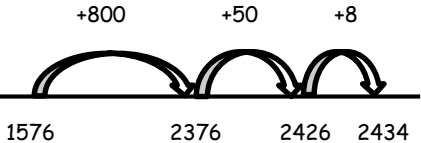
Age -Related
Expectations



Recording

<p>R</p>	<p>Addition as combining 2 groups.</p>	<p>Pictures/objects I buy 2 cakes and my friend buys 3 cakes. How many cakes do we have altogether?</p> 	<p>This might be recorded as $2 + 3 = 5$</p>	<p>Symbols 8 people are on the bus. 5 more get on at the next stop. How many people are on the bus now?</p> 	<p>This might be recorded as $8 + 5 = 13$</p>
<p>Y1</p>	<p>Represent and use number bonds and related subtraction facts within 20. Add one-digit and two-digit numbers to 20, including zero.</p>	<p>Practical/recorded using ICT and apparatus and drawings</p>	<p>Pictures/symbols (see above)</p>	<p>Number track/Number line - jumps of 1 (modelled using bead strings)</p> <p>$8 + 4 = 12$</p>   <p>8 9 10 11 12 13</p>	<p>Number line (efficient jumps)</p> <p>$8 + 5$</p>  <p>8 10 13</p>
<p>Y2</p>	<p>Add numbers using concrete objects, pictorial representations, and mentally, including:</p> <ul style="list-style-type: none"> a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit 	<p>Pictures/Symbols</p> <p>$23 + 12 = 35$</p> 	<p>Number line (efficient jumps)</p> <p>$35 + 47$</p>  <p>47 77 80 82</p> <p>(Also jumps can be in 10's and 1's)</p>	<p>Partitioning</p> <p>$35 + 47$</p> <p>Ones first</p> <p>$7 + 5 = 12$</p> <p>$40 + 30 = 70$</p> <p>$70 + 12 = 82$</p>	<p>Using mental strategies and informal jottings</p>  <p>$70 + 12 = 82$</p>



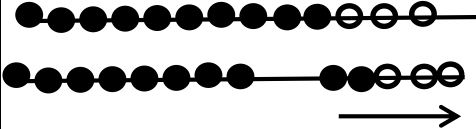
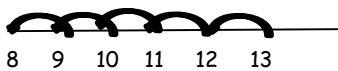
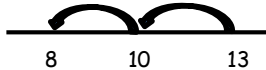
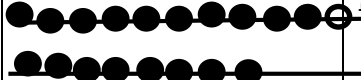
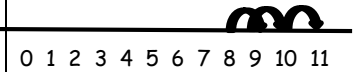
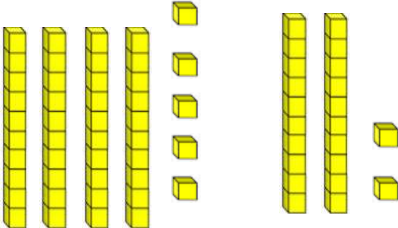

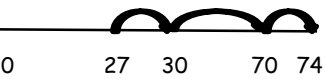
	numbers																															
Y3	Add numbers with up to three digits, using formal written methods of columnar addition.	<p>Number line</p> $57 + 285 = 342$	<p>Partitioning</p> <p>Ones first and using mental methods and informal jottings</p>	<p>Expanded vertical method</p> <p>Only to model</p> $336 + 87 = 423$ <table style="margin-left: 20px;"> <tr><td>H</td><td>T</td><td>O</td></tr> <tr><td>300</td><td>+ 30</td><td>+ 6</td></tr> <tr><td colspan="3"><hr/></td></tr> <tr><td colspan="2"></td><td>80 + 7</td></tr> <tr><td colspan="3"><hr/></td></tr> <tr><td colspan="3">300 + 110 + 13</td></tr> </table>	H	T	O	300	+ 30	+ 6	<hr/>					80 + 7	<hr/>			300 + 110 + 13			<p>Expanded vertical method</p> $336 + 87 = 423$ <table style="margin-left: 20px;"> <tr><td>336</td></tr> <tr><td>+ 87</td></tr> <tr><td><hr/></td></tr> <tr><td>13 (6 + 7)</td></tr> <tr><td>110 (30 + 80)</td></tr> <tr><td><hr/></td></tr> <tr><td>300 (300 + 0)</td></tr> <tr><td><hr/></td></tr> <tr><td>423</td></tr> </table>	336	+ 87	<hr/>	13 (6 + 7)	110 (30 + 80)	<hr/>	300 (300 + 0)	<hr/>	423
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423																																
Y4	Add numbers with up to 4 digits using the formal written methods of columnar addition where appropriate.	<p>Number line</p> $374 + 248 = 622$	<p>Expanded vertical</p> <p>Only to model</p> <p>Ones first</p> $\begin{array}{r} 374 \\ +248 \\ \hline 12 \quad (4 + 8) \\ 110 \quad (70 + 40) \\ + 500 \quad (300 + 200) \\ \hline 622 \end{array}$	<p>Compact vertical</p> $\begin{array}{r} 374 \\ +248 \\ \hline 622 \end{array}$ <p>† † ← Carry underneath and cross out when added to avoid confusion.</p>																												

Y5	Add whole numbers with more than 4 digits, including using formal written methods (columnar addition). Add decimal numbers.	<p>Number line</p> $1576 + 858 = 2434$ 	<p>Partitioning</p> $1576 + 858$ $8 + 14$ $70 + 50 = 120$ $500 + 800 = 1300$ $1000 + 0 = 1000$	<p>Expanded vertical</p> $\begin{array}{r} 23.70 \\ + 48.56 \\ \hline 0.06 \text{ (} 0.00 + 0.06 \text{)} \\ 1.20 \text{ (} 0.70 + 0.50 \text{)} \\ 11.00 \text{ (} 3 + 8 \text{)} \\ 60.00 \text{ (} 20 + 40 \text{)} \\ \hline 72.26 \end{array}$ <p>Ones or smallest place value first</p>	<p>Compact vertical</p> $\begin{array}{r} 23.70 \\ + 48.56 \\ \hline 72.26 \end{array}$ <p>-1 ← carry underneath and cross out when added to avoid confusion.</p>
Y6	As above	<p>Number line</p> $3.243\text{km} + 18.07\text{km} =$ As above Using mental methods and informal jottings	<p>Partitioning</p> $3.243\text{km} + 18.07\text{km}$ $3 + 18 = 21$ $0.2 + 0.0 = 0.2$ $0.04 + 0.07 = 0.11$ $0.003 + 0 = 0.003$ Using mental methods & informal jottings	<p>Expanded vertical</p> $\begin{array}{r} 3.243 \\ + 18.070 \\ \hline 0.003 \\ 0.110 \\ 0.200 \\ 21.000 \\ \hline \end{array}$ <p>Ones or smallest place value column first</p>	<p>Compact vertical</p> $\begin{array}{r} 3.243 \\ + 18.070 \\ \hline 21.313 \end{array}$ <p>Carry ones underneath. Cross out when added to avoid confusion</p>

Subtraction



Age -Related Expectations

<p>R</p>	<p>Begin to relate subtraction to 'taking away'.</p>	<p>Pictures/Objects I have five cakes. I eat two of them. How many do I have left?  Might be recorded as $5 - 2 = 3$</p>	<p>Symbols Mom baked 9 biscuits. I ate 5. How many were left?  Might be recorded as $9 - 5 = 4$</p>		
<p>Y1</p>	<p>Represent and use number bonds and related subtraction facts within 20 Subtract one-digit and two-digit numbers to 20, including zero.</p>	<p>Taking away - jumps of 1 (modelled using bead strings) $13 - 5 = 8$  $-1 \quad -1 \quad -1 \quad -1 \quad -1$ </p>	<p>Taking away (efficient jumps) $13 - 5 = 8$ $-2 \quad -3$  $13 - 3 = 10$ $10 - 2 = 8$</p>	<p>Counting on - jumps of 1 Used to find the differences between numbers that are close. (modelled using bead strings) $11 - 8 = 3$ </p>	<p>Counting on (efficient jumps) Number line/ no number line $11 - 8 = 3$ $8 + 2 = 10$ $10 + 1 = 11$ </p>
<p>Y2</p>	<p>Subtract numbers using concrete objects, pictorial representations, and mentally, including:</p> <ul style="list-style-type: none"> a two-digit number and ones a two-digit number and tens two two-digit 	<p>Pictures/ Symbols $45 - 22 = 23$ </p>	<p>Number lines - taking away $74 - 27 = 47$ $-3 \quad -4 \quad -20$ </p> <p>Also jumps can be in 10s and 1s</p>	<p>Partitioning $74 - 27$ $74 - 20 = 54$ $54 - 4 = 50$ $50 - 3 = 47$</p>	<p>Number lines - counting on $74 - 27 = 47$ To find the difference $+3 \quad +40 \quad +4$ </p>

	<ul style="list-style-type: none"> numbers adding three one-digit numbers 																																														
Y3	Subtract numbers with up to three digits, using formal written methods of subtraction.	<p>Number line - counting on To find the difference</p> $141 - 89 = 52$ <p>89 100 141</p>	<p>Number line - taking away</p> $326 - 78 = 248$ <p>248 256 326</p> <p>Vertical number line may be used to record calculation</p>	<p>Decomposition Without exchanging</p> $275 - 32 = 243$ <table style="margin-left: 20px;"> <tr><td>H</td><td>T</td><td>O</td></tr> <tr><td>200</td><td>+ 70</td><td>+ 5</td></tr> <tr><td colspan="3"><hr/></td></tr> <tr><td colspan="3">30 + 2</td></tr> </table> $200 + 40 + 3$ <p>Starting with the ones column</p>	H	T	O	200	+ 70	+ 5	<hr/>			30 + 2			<p>Decomposition With exchanging</p> $272 - 48 = 224$ <table style="margin-left: 20px;"> <tr><td>60</td><td>1</td></tr> <tr><td>200</td><td>+ 70 + 2</td></tr> <tr><td colspan="2"><hr/></td></tr> <tr><td colspan="2">40 + 8</td></tr> </table> $200 + 20 + 4$	60	1	200	+ 70 + 2	<hr/>		40 + 8																							
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Y4	Subtract numbers with up to 4 digits using the formal written methods of columnar subtraction where appropriate.	<p>Number line - counting on</p> $754 - 186 = 568$ <p>186 200 700 754</p> <p>Vertical number line may be used to record calculation</p>	<p>Decomposition With no exchanging</p> $368 - 173 = 213$ <table style="margin-left: 20px;"> <tr><td>H</td><td>T</td><td>O</td></tr> <tr><td>300</td><td>+ 80</td><td>+ 6</td></tr> <tr><td colspan="3"><hr/></td></tr> <tr><td colspan="3">100 + 70 + 3</td></tr> <tr><td colspan="3"><hr/></td></tr> <tr><td colspan="3">200 + 10 + 3</td></tr> </table>	H	T	O	300	+ 80	+ 6	<hr/>			100 + 70 + 3			<hr/>			200 + 10 + 3			<p>Decomposition With exchanging</p> $723 - 458 = 265$ <table style="margin-left: 20px;"> <tr><td>600</td><td>110</td><td>1</td></tr> <tr><td>700</td><td>+ 20</td><td>+ 3</td></tr> <tr><td colspan="3"><hr/></td></tr> <tr><td colspan="3">400 + 50 + 8</td></tr> </table> $200 + 60 + 5$	600	110	1	700	+ 20	+ 3	<hr/>			400 + 50 + 8			<p>Decomposition (compact method)</p> $741 - 367 = 374$ <table style="margin-left: 20px;"> <tr><td>6</td><td>13</td><td>1</td></tr> <tr><td>7</td><td>4</td><td>1</td></tr> <tr><td colspan="3"><hr/></td></tr> <tr><td colspan="3">3 6 7</td></tr> </table> $3 7 4$	6	13	1	7	4	1	<hr/>			3 6 7		
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Y5	Subtract whole numbers with more than 4 digits, including using formal written methods (columnar subtraction). Subtract decimal numbers.	<p>Number lines - counting on</p> $72.5 - 45.7 = 26.8$ <p>45.7 50 70 72.5</p>	<p>Decomposition With exchanging</p> $2362 - 548 = 1814$ <table style="margin-left: 20px;"> <tr><td>1000</td><td>1</td><td>50</td><td>1</td></tr> <tr><td>2000</td><td>+ 300</td><td>+ 60</td><td>+ 2</td></tr> <tr><td colspan="4"><hr/></td></tr> <tr><td colspan="4">500 + 40 + 8</td></tr> <tr><td colspan="4"><hr/></td></tr> <tr><td colspan="4">1000 + 800 + 10 + 4</td></tr> </table>	1000	1	50	1	2000	+ 300	+ 60	+ 2	<hr/>				500 + 40 + 8				<hr/>				1000 + 800 + 10 + 4				<p>Decomposition (compact method)</p> $72.5 - 45.7 = 26.8$ <table style="margin-left: 20px;"> <tr><td>6</td><td>11</td><td>1</td></tr> <tr><td>7</td><td>2</td><td>5</td></tr> <tr><td colspan="3"><hr/></td></tr> <tr><td colspan="3">4 5. 7</td></tr> </table> $2 6. 8$	6	11	1	7	2	5	<hr/>			4 5. 7									
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Y6	As above.	Recognise when one written method is more efficient (See Y5 methods of recording)
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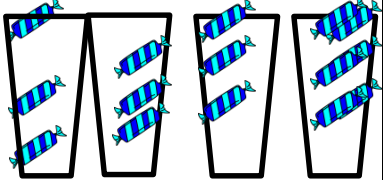
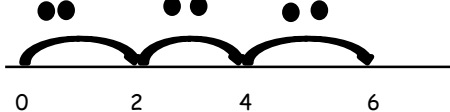


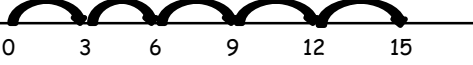

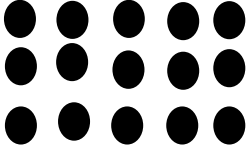
Multiplication

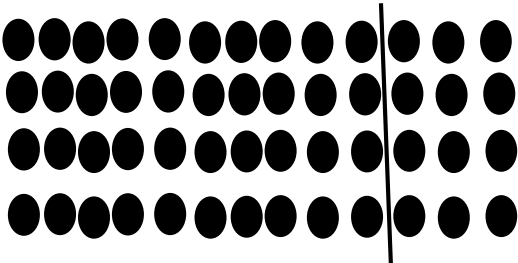
Age related expectations



Recording



<p>R</p>	<p>Count repeated groups of the same size.</p>	<p>Practical/recorded using apparatus and drawings</p>	<p>Pictures/ Objects</p> <p>3 plates, 2 cakes on each plate</p> 	<p>Symbols</p> <p>3 plates, 2 cakes on each plate</p> 
<p>Y1</p>	<p>Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.</p>	<p>Practical/recorded using ICT</p>	<p>Pictures/Symbols</p> <p>There are three sweets in one bag. How many sweets are there in five bags?</p> 	<p>Number line (modelled using bead strings)</p> <p>2×3 or 3×2 (two, three times) or (three group of two)</p> 
<p>Y2</p>	<p>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.</p>	<p>Pictures/Symbols</p> <p>There are three apples in each box. How many apples in four boxes?</p>  	<p>Repeated addition</p> <p>5×3 or 3×5</p>  	<p>Arrays</p> <p>5×3 or 3×5</p>  <p>Also 14×2 as (10×2 and 4×2)</p>

<p>Y3</p>	<p>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</p>	<p>Arrays</p> <p>13×4</p>  <p>$10 \times 4 = 40$ $3 \times 4 = 12$</p>	<p>Compact grid method</p> <p>$13 \times 4 = 52$</p> <table border="1" data-bbox="1272 343 1814 470"> <tr> <td></td> <td>T</td> <td>O</td> </tr> <tr> <td>X</td> <td>10</td> <td>3</td> </tr> <tr> <td>4</td> <td>40</td> <td>12</td> </tr> </table> <p>$40 + 12 = 52$</p>		T	O	X	10	3	4	40	12	<p>Partitioning (possible use of number line to record steps)</p> <p>$13 \times 4 = 52$</p> <p>$10 \times 4 = 40$ $3 \times 4 = 12$</p>											
	T	O																						
X	10	3																						
4	40	12																						
<p>Y4</p>	<p>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.</p>	<p>Compact grid method</p> <p>$43 \times 6 = 258$</p> <table border="1" data-bbox="687 1002 1305 1125"> <tr> <td>X</td> <td>40</td> <td>3</td> </tr> <tr> <td>6</td> <td>240</td> <td>18</td> </tr> </table> <p>$240 + 18 = 258$</p>	X	40	3	6	240	18	<p>Expanded vertical</p> <table data-bbox="1366 885 1668 1061"> <tr> <td>43</td> <td></td> </tr> <tr> <td>X 6</td> <td>ones first</td> </tr> <tr> <td>18</td> <td>(3 x 6)</td> </tr> <tr> <td>240</td> <td>(40 x 6)</td> </tr> <tr> <td>258</td> <td></td> </tr> </table>	43		X 6	ones first	18	(3 x 6)	240	(40 x 6)	258		<p>Compact vertical</p> <table data-bbox="1780 885 1870 1029"> <tr> <td>43</td> </tr> <tr> <td>X 6</td> </tr> <tr> <td>258</td> </tr> <tr> <td>1</td> </tr> </table>	43	X 6	258	1
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<p>Y5</p>	<p>Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.</p>	<p>Grid method</p> <p>47×36</p> <table border="1" data-bbox="685 304 954 413"> <tr> <td>X</td> <td>40</td> <td>7</td> </tr> <tr> <td>30</td> <td>1200</td> <td>210</td> </tr> <tr> <td>6</td> <td>240</td> <td>42</td> </tr> </table> <p>(estimate $50 \times 40 = 2000$)</p>	X	40	7	30	1200	210	6	240	42	<p>Recombine</p> <p>→ 1410 + 282 1692</p>	<p>Expanded vertical</p> <p>237×4 (estimate: $250 \times 4 = 1000$)</p> $\begin{array}{r} 237 \\ \times 4 \\ \hline 28 \\ 120 \\ \hline 800 \\ 948 \end{array}$	<p>Compact vertical</p> <p>4.7×8 (estimate: $5 \times 8 = 40$)</p> $\begin{array}{r} 4.7 \\ \times 8 \\ \hline 37.6 \\ 5 \end{array}$
X	40	7												
30	1200	210												
6	240	42												
<p>Y6</p>	<p>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.</p>	<p>Grid method</p> <p>5.65×9 (estimate: $6 \times 9 = 54$)</p> <table border="1" data-bbox="685 735 1137 799"> <tr> <td>X</td> <td>5</td> <td>0.6</td> <td>0.05</td> </tr> <tr> <td>9</td> <td>45</td> <td>5.4</td> <td>0.45</td> </tr> </table> $\begin{array}{r} 45 \\ 5.4 \\ + 0.45 \\ \hline 50.85 \end{array}$	X	5	0.6	0.05	9	45	5.4	0.45	<p>Expanded vertical</p> <p>2327×8 (estimate: $2300 \times 10 = 23,000$)</p> $\begin{array}{r} 2327 \\ \times 8 \\ \hline 56 \\ 160 \\ 2400 \\ + 16000 \\ \hline 18616 \\ 1 \end{array}$ <p>ones first</p>	<p>Compact vertical</p> <p>256×18 (estimate: $250 \times 20 = 5000$)</p> $\begin{array}{r} 256 \\ \times 18 \\ \hline 2048 \quad (8 \times 256) \\ + 2560 \quad (10 \times 256) \\ \hline 4608 \\ 1 \end{array}$		
X	5	0.6	0.05											
9	45	5.4	0.45											


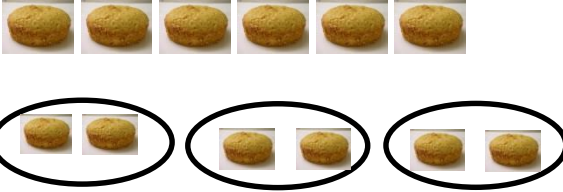





Division

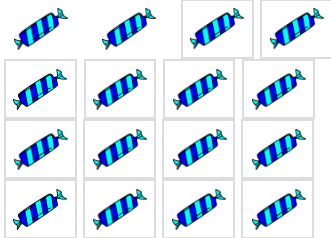
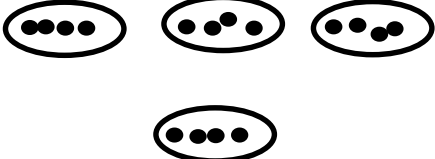
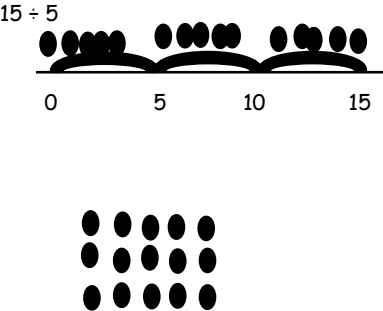
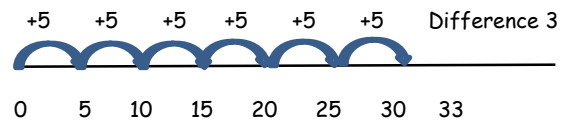
Age related expectations

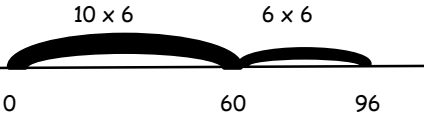


Recording



<p>R</p>	<p>Share objects into equal sets and count how many are in each group.</p>	<p>Practical/recorded using apparatus and drawings</p>	<p>Pictures/ Objects</p> <p>6 cakes shared between 2</p>  <p>6 cakes put into groups of 2</p> 	<p>Symbols</p> <p>6 cakes shared between 2</p>  <p>6 cakes put into groups of 2</p> 
<p>Y1</p>	<p>Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.</p>	<p>Practical/recorded using ICT</p>	<p>Pictures/ Symbols</p> <p>How many apples in each bowl if I share 12 apples between 3 bowls?</p>  	<p>Number line</p> <p>$6 \div 2 = 3$</p>  <p>Modelled using bead strings</p>

<p>Y2</p>	<p>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.</p>	<p>Pictures/ Symbols</p> <p>Four sweets fit in a box. How many boxes would you need to pack 16 sweets?</p>  	<p>Number lines / Arrays</p> <p>$15 \div 5$</p> 	<p>Partitioning</p> <p>$28 \div 2$</p> <p>$20 \div 2 = 10$</p> <p>$8 \div 2 = 4$</p>
<p>Y3</p>	<p>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.</p>	<p>Number lines/ Array (Count back from number)</p> <p>As for Y2 with no remainders</p>	<p>Number lines (count on from zero)</p> <p>$33 \div 5 = 6 \text{ r}3$</p>  <p>Examples with remainders</p>	

<p>Y4</p>	<p>Divide numbers up to 3 digits by a one-digit number and interpret remainders appropriately for the context.</p>	<p>Number line (start from zero)</p> $96 \div 6 = 16$ 	<p>Partitioning (multiples of the divisor)</p> $64 \div 4 = 16$ $10 \times 4 = 40$ $6 \times 4 = 24$ $40 + 24 = 64$ <p>Use as a mental method with no remainders</p>	<p>Grouping (vertical layout)</p> $96 \div 7 =$ $\begin{array}{r} 96 \\ - 70 \quad (10 \times 7) \\ \hline 26 \\ - 21 \quad (3 \times 7) \\ \hline 5 \end{array}$ <p>Answer = 13 r5</p>	
<p>Y5</p>	<p>Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.</p>	<p>Grouping (expanded)</p> $196 \div 6$ $\begin{array}{r} 6 \overline{) 196} \\ \underline{- 60} \quad (10 \times 6) \\ 136 \\ \underline{- 60} \quad (10 \times 6) \\ 76 \\ \underline{- 60} \quad (10 \times 6) \\ 16 \\ \underline{- 12} \quad (2 \times 6) \\ 4 \end{array}$ <p>Answer = 32 r4</p>	<p>Grouping (efficient)</p> $196 \div 6$ $\begin{array}{r} 6 \overline{) 196} \\ \underline{- 180} \quad (30 \times 6) \\ 16 \\ \underline{- 12} \quad (2 \times 6) \\ 4 \end{array}$ <p>Answer = 32 r4</p>	<p>Long division</p> $195 \div 15 =$ $\begin{array}{r} 13 \\ 15 \overline{) 195} \\ \underline{- 150} \\ 45 \\ \underline{- 45} \\ 0 \end{array}$	<p>Short division</p> $291 \div 3$ $\begin{array}{r} 97 \\ 3 \overline{) 291} \\ \underline{- 27} \\ 21 \\ \underline{- 21} \\ 0 \end{array}$ <p>Using with whole numbers only</p>

<p>Y6</p>	<p>Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context. Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.</p>	<p>Grouping (efficient)</p> <p>$25.6 \div 8$ (estimate: $24 \div 8 = 3$)</p> $\begin{array}{r} 8 \overline{) 25.6} \\ \underline{-24.0} \quad (3.0 \times 8) \\ 1.6 \\ \underline{-1.6} \quad (0.2 \times 8) \\ 0 \end{array}$ <p>$3.0 + 0.2 = 3.2$</p> <p>$25.6 \div 8 = 3.2$</p>	<p>Long division</p> <p>$560 \div 24$ (estimate: $550 \div 25 = 22$)</p> $\begin{array}{r} 23 \text{ r } 8 \\ 24 \overline{) 560} \\ \underline{-480} \\ 80 \\ \underline{-72} \\ 8 \end{array}$	<p>Short division</p> <p>$43.4 \div 7$ (estimate $42 \div 7 = 6$)</p> $\begin{array}{r} 6.2 \\ 7 \overline{) 43.14} \end{array}$
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