

Addition script (Expanded notation)

Language (Script)	Recording																																																																																										
<p>237 and 195</p> <p>Expand the two numbers</p> <ul style="list-style-type: none"> • 237 is $200 + 30 + 7$ • 195 is $100 + 90 + 5$ <p><i>Expanding the numbers allows students to see and understand the value of the numbers to be added.</i></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 10%;">H</th> <th style="width: 10%;">T</th> <th style="width: 10%;">O</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">7</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>200</td> <td>+</td> <td>30</td> <td>+</td> <td>7</td> </tr> <tr> <td style="text-align: center;">+</td> <td style="text-align: center;">1</td> <td style="text-align: center;">9</td> <td style="text-align: center;">5</td> <td>100</td> <td>+</td> <td>90</td> <td>+</td> <td>5</td> </tr> <tr> <td colspan="4" style="border-top: 1px solid red;"></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		H	T	O							2	3	7										200	+	30	+	7	+	1	9	5	100	+	90	+	5																																																						
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<p>Add the hundreds, tens and ones</p> <ul style="list-style-type: none"> • 200 and 100 is 300 • 30 and 90 is 120 • 7 and 5 is 12 <p><i>Students can add from right to left or from left to right</i></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 10%;">H</th> <th style="width: 10%;">T</th> <th style="width: 10%;">O</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">7</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>200</td> <td>+</td> <td>30</td> <td>+</td> <td>7</td> </tr> <tr> <td style="text-align: center;">+</td> <td style="text-align: center;">1</td> <td style="text-align: center;">9</td> <td style="text-align: center;">5</td> <td>100</td> <td>+</td> <td>90</td> <td>+</td> <td>5</td> </tr> <tr> <td colspan="4" style="border-top: 1px solid red;"></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>300</td> <td>+</td> <td>120</td> <td>+</td> <td>12</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		H	T	O							2	3	7										200	+	30	+	7	+	1	9	5	100	+	90	+	5														300	+	120	+	12																																				
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<p>Add two of the subtotals</p> <ul style="list-style-type: none"> • 300 and 120 is 420 <p><i>Students could have selected to add 120 and 12 if they felt that this would have been easier/more manageable</i></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 10%;">H</th> <th style="width: 10%;">T</th> <th style="width: 10%;">O</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">7</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>200</td> <td>+</td> <td>30</td> <td>+</td> <td>7</td> </tr> <tr> <td style="text-align: center;">+</td> <td style="text-align: center;">1</td> <td style="text-align: center;">9</td> <td style="text-align: center;">5</td> <td>100</td> <td>+</td> <td>90</td> <td>+</td> <td>5</td> </tr> <tr> <td colspan="4" style="border-top: 1px solid red;"></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>300</td> <td>+</td> <td>120</td> <td>+</td> <td>12</td> </tr> <tr> <td colspan="4" style="border-top: 1px solid red;"></td> <td>420</td> <td></td> <td></td> <td>+</td> <td>12</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		H	T	O							2	3	7										200	+	30	+	7	+	1	9	5	100	+	90	+	5														300	+	120	+	12					420			+	12																											
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<p>Add the remaining subtotals</p> <ul style="list-style-type: none"> • 420 and 12 is 432 	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 10%;">H</th> <th style="width: 10%;">T</th> <th style="width: 10%;">O</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">7</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>200</td> <td>+</td> <td>30</td> <td>+</td> <td>7</td> </tr> <tr> <td style="text-align: center;">+</td> <td style="text-align: center;">1</td> <td style="text-align: center;">9</td> <td style="text-align: center;">5</td> <td>100</td> <td>+</td> <td>90</td> <td>+</td> <td>5</td> </tr> <tr> <td colspan="4" style="border-top: 1px solid red;"></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>300</td> <td>+</td> <td>120</td> <td>+</td> <td>12</td> </tr> <tr> <td colspan="4" style="border-top: 1px solid red;"></td> <td>420</td> <td></td> <td></td> <td>+</td> <td>12</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>432</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		H	T	O							2	3	7										200	+	30	+	7	+	1	9	5	100	+	90	+	5														300	+	120	+	12					420			+	12					432																						
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