


Division script (Chipping away at the whole number)

Language (Script)	Visual/image	Recording																																																							
<p>237 divided by 5</p> <p>How could you share 237 balloons between 5 people?</p> <p>Make a good 'guess'. Make sure your 'guess' ends in a zero. It could be 10 each, 20 each, 30 each, 40 each, 50 each, etc.</p> <ul style="list-style-type: none"> Student could suggest 20 <p>So if each person gets 20 balloons each, how many have we shared? $5 \times 20 = 100$</p> <p>Subtract 100 from 237. How many balloons are we left with? $237 - 100 = 137$. There are 137 balloons left.</p>	 <p><i>An image is used to represent the number of items to be shared.</i></p> <p><i>Rub out parts of the image as the number of items are progressively shared.</i></p>	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 20px;">H</th> <th style="width: 20px;">T</th> <th style="width: 20px;">O</th> <th style="width: 20px;"></th> <th style="width: 20px;"></th> <th style="width: 20px;"></th> </tr> </thead> <tbody> <tr> <td>5</td> <td>2</td> <td>3</td> <td>7</td> <td></td> <td>Ⓜ</td> </tr> <tr> <td>—</td> <td>1</td> <td>0</td> <td>0</td> <td>5 ×</td> <td>2 0</td> </tr> <tr> <td></td> <td>1</td> <td>3</td> <td>7</td> <td></td> <td></td> </tr> </tbody> </table>	H	T	O				5	2	3	7		Ⓜ	—	1	0	0	5 ×	2 0		1	3	7																																	
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<p>How could you share 137 balloons between 5 people?</p> <p>Remember, make a good 'guess' and that sure your 'guess' ends in a zero. It could be 10 each, 20 each, 30 each, 40 each, 50 each, etc.</p> <ul style="list-style-type: none"> Student could suggest 20 again <p>So if each person gets 20 Balloons each, how many have we shared? $5 \times 20 = 100$</p> <p>Subtract 100 from 137. How many balloons are we left with? $137 - 100 = 37$. There are 37 balloons left.</p>		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 20px;">H</th> <th style="width: 20px;">T</th> <th style="width: 20px;">O</th> <th style="width: 20px;"></th> <th style="width: 20px;"></th> <th style="width: 20px;"></th> </tr> </thead> <tbody> <tr> <td>5</td> <td>2</td> <td>3</td> <td>7</td> <td></td> <td>Ⓜ</td> </tr> <tr> <td>—</td> <td>1</td> <td>0</td> <td>0</td> <td>5 ×</td> <td>2 0</td> </tr> <tr> <td></td> <td>1</td> <td>3</td> <td>7</td> <td></td> <td></td> </tr> <tr> <td>—</td> <td>1</td> <td>0</td> <td>0</td> <td>5 ×</td> <td>2 0</td> </tr> <tr> <td></td> <td></td> <td>3</td> <td>7</td> <td></td> <td></td> </tr> </tbody> </table>	H	T	O				5	2	3	7		Ⓜ	—	1	0	0	5 ×	2 0		1	3	7			—	1	0	0	5 ×	2 0			3	7																					
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<p>How could you share 37 balloons between 5 people?</p> <p>Make a good 'guess'.</p> <ul style="list-style-type: none"> Student could suggest 7 <p>So if each person gets 7 balloons each, how many have we shared? $5 \times 7 = 35$</p> <p>Subtract 35 from 37. How many balloons are we left with? $37 - 35 = 2$. There are 2 balloons left.</p> <p>There is nothing left to share.</p>		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 20px;">H</th> <th style="width: 20px;">T</th> <th style="width: 20px;">O</th> <th style="width: 20px;"></th> <th style="width: 20px;"></th> <th style="width: 20px;"></th> </tr> </thead> <tbody> <tr> <td>5</td> <td>2</td> <td>3</td> <td>7</td> <td></td> <td>Ⓜ</td> </tr> <tr> <td>—</td> <td>1</td> <td>0</td> <td>0</td> <td>5 ×</td> <td>2 0</td> </tr> <tr> <td></td> <td>1</td> <td>3</td> <td>7</td> <td></td> <td></td> </tr> <tr> <td>—</td> <td>1</td> <td>0</td> <td>0</td> <td>5 ×</td> <td>2 0</td> </tr> <tr> <td></td> <td></td> <td>3</td> <td>7</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>—</td> <td>3</td> <td>5</td> <td>5 ×</td> <td>7</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> </tr> </tbody> </table>	H	T	O				5	2	3	7		Ⓜ	—	1	0	0	5 ×	2 0		1	3	7			—	1	0	0	5 ×	2 0			3	7					—	3	5	5 ×	7						2						
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<p>Add the number of balloons shared to each person.</p> <p>$20 + 20 + 7 = 47$</p> <p>Record your answer. Each person got 47 balloons and there were 2 left over.*</p>		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 20px;">H</th> <th style="width: 20px;">T</th> <th style="width: 20px;">O</th> <th style="width: 20px;"></th> <th style="width: 20px;"></th> <th style="width: 20px;"></th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>4</td> <td>7</td> <td>r</td> <td>2</td> </tr> <tr> <td>5</td> <td>2</td> <td>3</td> <td>7</td> <td></td> <td>Ⓜ</td> </tr> <tr> <td>—</td> <td>1</td> <td>0</td> <td>0</td> <td>5 ×</td> <td>2 0</td> </tr> <tr> <td></td> <td>1</td> <td>3</td> <td>7</td> <td></td> <td></td> </tr> <tr> <td>—</td> <td>1</td> <td>0</td> <td>0</td> <td>5 ×</td> <td>2 0</td> </tr> <tr> <td></td> <td></td> <td>3</td> <td>7</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>—</td> <td>3</td> <td>5</td> <td>5 ×</td> <td>7</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> </tr> </tbody> </table>	H	T	O						4	7	r	2	5	2	3	7		Ⓜ	—	1	0	0	5 ×	2 0		1	3	7			—	1	0	0	5 ×	2 0			3	7					—	3	5	5 ×	7						2
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* Answers involving fractions require a different context – physical objects that can be shared (e.g., Mars Bars)