

Y6 – Autumn – Block 2 – Step 6 – Long division (2) Answers

Question	Answer																																																																																																																																																																								
1	a) $4,080 \div 10$ mental division $4,080 \div 4$ mental or short division $4,080 \div 24$ long division or short division by factors 4 then 6 $4,080 \div 34$ long division b) $4,080 \div 10 = 408$ $4,080 \div 4 = 1,020$ $4,080 \div 24 = 170$ $4,080 \div 34 = 120$																																																																																																																																																																								
2	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;"> <table style="border-collapse: collapse; text-align: center; width: 150px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td>1</td><td>1</td><td>0</td></tr> <tr style="border-top: 1px solid black;"><td>37</td><td>4</td><td>0</td><td>7</td><td>0</td><td></td></tr> <tr><td></td><td></td><td></td><td>3</td><td>7</td><td></td></tr> <tr style="border-top: 1px solid black;"><td></td><td></td><td></td><td>3</td><td>7</td><td></td></tr> <tr><td></td><td></td><td></td><td>3</td><td>7</td><td></td></tr> <tr style="border-top: 1px solid black;"><td></td><td></td><td></td><td></td><td>0</td><td></td></tr> </table> </div> <div style="border: 1px solid black; padding: 5px;"> <table style="border-collapse: collapse; text-align: center; width: 150px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td>1</td><td>0</td><td>7</td></tr> <tr style="border-top: 1px solid black;"><td>37</td><td>3</td><td>9</td><td>5</td><td>9</td><td></td></tr> <tr><td></td><td></td><td></td><td>3</td><td>7</td><td></td></tr> <tr style="border-top: 1px solid black;"><td></td><td></td><td></td><td>2</td><td>5</td><td>9</td></tr> <tr><td></td><td></td><td></td><td>2</td><td>5</td><td>9</td></tr> <tr style="border-top: 1px solid black;"><td></td><td></td><td></td><td></td><td></td><td>0</td></tr> </table> </div> </div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;"> <table style="border-collapse: collapse; text-align: center; width: 150px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td>2</td><td>0</td><td>4</td></tr> <tr style="border-top: 1px solid black;"><td>37</td><td>7</td><td>5</td><td>4</td><td>8</td><td></td></tr> <tr><td></td><td></td><td></td><td>7</td><td>4</td><td></td></tr> <tr style="border-top: 1px solid black;"><td></td><td></td><td></td><td>1</td><td>4</td><td>8</td></tr> <tr><td></td><td></td><td></td><td>1</td><td>4</td><td>8</td></tr> <tr style="border-top: 1px solid black;"><td></td><td></td><td></td><td></td><td></td><td>0</td></tr> </table> </div> <div style="border: 1px solid black; padding: 5px;"> <table style="border-collapse: collapse; text-align: center; width: 150px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td>1</td><td>0</td><td>9</td></tr> <tr style="border-top: 1px solid black;"><td>37</td><td>4</td><td>0</td><td>3</td><td>3</td><td></td></tr> <tr><td></td><td></td><td></td><td>3</td><td>7</td><td></td></tr> <tr style="border-top: 1px solid black;"><td></td><td></td><td></td><td>3</td><td>3</td><td>3</td></tr> <tr><td></td><td></td><td></td><td>3</td><td>3</td><td>3</td></tr> <tr style="border-top: 1px solid black;"><td></td><td></td><td></td><td></td><td></td><td>0</td></tr> </table> </div> </div>										1	1	0	37	4	0	7	0					3	7					3	7					3	7						0											1	0	7	37	3	9	5	9					3	7					2	5	9				2	5	9						0										2	0	4	37	7	5	4	8					7	4					1	4	8				1	4	8						0										1	0	9	37	4	0	3	3					3	7					3	3	3				3	3	3						0
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6	28,072 A good way of finding a long division that works is to multiply two numbers together, e.g. $74 \times 19 = 1,406$, so $74 = 1,406 \div 19$																																																																																																																																																																								