

Multiplication script ('Traditional' method with an emphasis on place value)

Language (Script)	Recording																																				
<p>423 multiplied by 15</p> <p>Multiply the ones</p> <p>5 by 3 ones is 15 ones</p> <p>Rename as 5 ones and 1 ten</p>	<table border="1" style="border-collapse: collapse; text-align: center; width: 100%;"> <thead> <tr> <th style="width: 25%;">Th</th> <th style="width: 25%;">H</th> <th style="width: 25%;">T</th> <th style="width: 25%;">O</th> </tr> </thead> <tbody> <tr><td></td><td></td><td></td><td>1</td></tr> <tr><td></td><td></td><td>4</td><td>2 3</td></tr> <tr><td></td><td></td><td>×</td><td>1 5</td></tr> <tr style="border-top: 1px solid red;"><td></td><td></td><td></td><td>5</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Th	H	T	O				1			4	2 3			×	1 5				5																
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<p>5 by 2 tens is 10 tens; and the 1 ten is 11 tens</p> <p>Rename as 1 ten and 1 hundred</p>	<table border="1" style="border-collapse: collapse; text-align: center; width: 100%;"> <thead> <tr> <th style="width: 25%;">Th</th> <th style="width: 25%;">H</th> <th style="width: 25%;">T</th> <th style="width: 25%;">O</th> </tr> </thead> <tbody> <tr><td></td><td></td><td>1</td><td>1</td></tr> <tr><td></td><td></td><td>4</td><td>2 3</td></tr> <tr><td></td><td></td><td>×</td><td>1 5</td></tr> <tr style="border-top: 1px solid red;"><td></td><td></td><td></td><td>1 5</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Th	H	T	O			1	1			4	2 3			×	1 5				1 5																
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<p>5 by 4 hundreds is 20 hundred; and the 1 hundred is 21 hundreds</p> <p>Rename as 1 hundred and 2 thousands</p>	<table border="1" style="border-collapse: collapse; text-align: center; width: 100%;"> <thead> <tr> <th style="width: 25%;">Th</th> <th style="width: 25%;">H</th> <th style="width: 25%;">T</th> <th style="width: 25%;">O</th> </tr> </thead> <tbody> <tr><td></td><td></td><td>1</td><td>1</td></tr> <tr><td></td><td></td><td>4</td><td>2 3</td></tr> <tr><td></td><td></td><td>×</td><td>1 5</td></tr> <tr style="border-top: 1px solid red;"><td></td><td></td><td>2</td><td>1 1 5</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Th	H	T	O			1	1			4	2 3			×	1 5			2	1 1 5																
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<p>Multiply the tens</p> <p>10 by 3 ones is 30 ones</p> <p>Rename as 0 ones and 3 tens</p>	<table border="1" style="border-collapse: collapse; text-align: center; width: 100%;"> <thead> <tr> <th style="width: 25%;">Th</th> <th style="width: 25%;">H</th> <th style="width: 25%;">T</th> <th style="width: 25%;">O</th> </tr> </thead> <tbody> <tr><td></td><td></td><td>1</td><td>1</td></tr> <tr><td></td><td></td><td>4</td><td>2 3</td></tr> <tr><td></td><td></td><td>×</td><td>1 5</td></tr> <tr style="border-top: 1px solid red;"><td></td><td></td><td>2</td><td>1 1 5</td></tr> <tr><td></td><td></td><td></td><td>3 0</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Th	H	T	O			1	1			4	2 3			×	1 5			2	1 1 5				3 0												
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<p>Add the digits beginning with the ones</p> <ul style="list-style-type: none"> • 5 ones and 0 ones is 5 ones • 1 ten and 3 tens is 4 tens • 1 hundred and 2 hundreds is 3 hundreds • 2 thousands and 4 thousands is 6 thousands 	<table border="1" style="border-collapse: collapse; text-align: center; width: 100%;"> <thead> <tr> <th style="width: 25%;">Th</th> <th style="width: 25%;">H</th> <th style="width: 25%;">T</th> <th style="width: 25%;">O</th> </tr> </thead> <tbody> <tr><td></td><td></td><td>1</td><td>1</td></tr> <tr><td></td><td></td><td>4</td><td>2 3</td></tr> <tr><td></td><td></td><td>×</td><td>1 5</td></tr> <tr style="border-top: 1px solid red;"><td></td><td></td><td>2</td><td>1 1 5</td></tr> <tr><td></td><td></td><td>+</td><td>4 2 3 0</td></tr> <tr style="border-top: 1px solid red;"><td></td><td></td><td>6</td><td>3 4 5</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Th	H	T	O			1	1			4	2 3			×	1 5			2	1 1 5			+	4 2 3 0			6	3 4 5								
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