

Division of 123456789 by 7

1/7	2/7	3/7	4/7	5/7	6/7
1/7 > 1+3	2/7 > 2+6	3/7 > 4+2	4/7 > 5+5	5/7 > 7+1	6/7 > 8+4
Rules of division by 7					

1 2 3 4 5 6 7 8 9 0 0 0 7	
A B C D E F G H I J K L M	

1 5 3 4 5 6 7 8 9 0 0 0 7	Column A: rule 1/7 > 1+3
	Change 1 in A into 1, add 3 to B
A B C D E F G H I J K L M	B

1 7 4 4 5 6 7 8 9 0 0 0 7	Column B: rule 5/7 > 7+1
	Change 5 in B into 7, add 1 to C
A B C D E F G H I J K L M	C

<p>1 7 5 9 5 6 7 8 9 0 0 0 7</p> <p>A B C D E F G H I J K L M</p>	<p>Column C: rule $4/7 > 5+5$</p> <p>Change 4 in C into 5, add 5 to D</p>
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<p>1 7 6 2 5 6 7 8 9 0 0 0 7</p> <p>A B C D E F G H I J K L M</p>	<p>Revise up C</p> <p>Add 1 to C, subtract 7 from D</p>
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<p>1 7 6 2 5 6 7 8 9 0 0 0 7</p> <p>A B C D E F G H I J K L M</p>	<p>Column D: rule $2/7 > 2+6$</p> <p>Change 2 in D into 2, add 6 to E</p>
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<p>1 7 6 3 4 6 7 8 9 0 0 0 7</p> <p>A B C D E F G H I J K L M</p>	<p>Revise up D</p> <p>Add 1 to D, subtract 7 from E</p>
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<p>1 7 6 3 5 11 7 8 9 0 0 0 7</p> <p>A B C D E F G H I J K L M</p>	<p>Column E: rule $4/7 > 5+5$</p> <p>Change 4 in E into 5, add 5 to F</p>
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<p>1 7 6 3 6 4 7 8 9 0 0 0 7</p> <p>A B C D E F G H I J K L M</p>	<p>Revise up E</p> <p>Add 1 to E, subtract 7 from F</p>
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<p>1 7 6 3 6 5 12 8 9 0 0 0 7</p> <p>A B C D E F G H I J K L M</p>	<p>Column F: rule $4/7 > 5+5$</p> <p>Change 4 in F into 5, add 5 to G</p>
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<p>1 7 6 3 6 6 5 8 9 0 0 0 7</p> <p>A B C D E F G H I J K L M</p>	<p>Revise up F</p> <p>Add 1 to F, subtract 7 from G</p>
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<p>1 7 6 3 6 6 7 9 9 0 0 0 7</p> <p>A B C D E F G H I J K L M</p>	<p>Column G: rule $5/7 > 7+1$</p> <p>Change 5 in G into 7, add 1 to H</p>
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<p>1 7 6 3 6 6 8 2 9 0 0 0 7</p> <p>A B C D E F G H I J K L M</p>	<p>Revise up G</p> <p>Add 1 to G, subtract 7 from H</p>
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<p>1 7 6 3 6 6 8 2 15 0 0 0 7</p> <p>A B C D E F G H I J K L M</p>	<p>Column H: rule $2/7 > 2+6$</p> <p>Change 2 in H into 2, add 6 to I</p>
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<p>1 7 6 3 6 6 8 4 1 0 0 0 7</p> <p>A B C D E F G H I J K L M</p>	<p>Revise up H twice</p> <p>Add 2 to H, subtract 14 from I</p> <p>Stop here!</p> <p>123456789/9=17636684 remainder = 1</p>
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