

Division of 123456789 by 6

1/6	2/6	3/6	4/6	5/6
$1/6 > 1+4$	$2/6 > 3+2$	$3/6 > 5+0$	$4/6 > 6+4$	$5/6 > 8+2$

Rules of division by 6

<p>1 2 3 4 5 6 7 8 9 0 0 0 6</p> <p>A B C D E F G H I J K L M</p>	
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<p>1 6 3 4 5 6 7 8 9 0 0 0 6</p> <p>A B C D E F G H I J K L M</p>	<p>Column A: rule $1/6 > 1+4$</p> <p>Change 1 in A into 1, add 4 to B</p>
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<p>2 0 3 4 5 6 7 8 9 0 0 0 6</p> <p>A B C D E F G H I J K L M</p>	<p>Revise up A</p> <p>Add 1 to A, subtract 6 from B</p>
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<p>2 0 5 4 5 6 7 8 9 0 0 0 6</p> <p>A B C D E F G H I J K L M</p>	<p>Column C: rule $3/6 > 5+0$</p> <p>Change 3 in C into 5, add 0 to D</p>
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<p>2 0 5 6 9 6 7 8 9 0 0 0 6</p> <p>A B C D E F G H I J K L M</p>	<p>Column D: rule $4/6 > 6+4$</p> <p>Change 4 in D into 6, add 4 to E</p>
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<p>2 0 5 7 3 6 7 8 9 0 0 0 6</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 6 from E</p>
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<p>2 0 5 7 5 6 7 8 9 0 0 0 6</p> <p>A B C D E F G H I J K L M</p>	<p>Column E: rule $3/6 > 5+0$</p> <p>Change 3 in E into 5, add 0 to F</p>
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<p>2 0 5 7 6 0 7 8 9 0 0 0 6</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 6 from F</p>
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<p>2 0 5 7 6 1 1 8 9 0 0 0 6</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 6 from G</p>
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<p>2 0 5 7 6 1 1 12 9 0 0 0 6</p> <p>A B C D E F G H I J K L M</p>	<p>Column G: rule $1/6 > 1+4$</p> <p>Change 1 in G into 1, add 4 to H</p>
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<p>2 0 5 7 6 1 3 0 9 0 0 0 6</p> <p>A B C D E F G H I J K L M</p>	<p>Revise up G twice</p> <p>Add 2 to G, subtract 12 from H</p>
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<p>2 0 5 7 6 1 3 1 3 0 0 0 6</p> <p>A B C D E F G H I J K L M</p>	<p>Revise up H</p> <p>Add 1 to H, subtract 6 from I</p>
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<p>2 0 5 7 6 1 3 1 5 0 0 0 6</p> <p>A B C D E F G H I J K L M</p>	<p>Column I: rule $3/6 > 5+0$</p> <p>Change 3 in I into 5, add 0 to J</p> <p>Done!</p> <p>$123456789/6=20576131.5$</p>
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