

Division of 123456789 by 8

1/8	2/8	3/8	4/8	5/8	6/8	7/8
$1/8 > 1+2$	$2/8 > 2+4$	$3/8 > 3+6$	$4/8 > 5+0$	$5/8 > 6+2$	$6/8 > 7+4$	$7/8 > 8+6$

Rules of division by 8

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

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

Column A: rule $1/8 > 1+2$

Change 1 in A into 1, add 2 to B

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

Column B: rule $4/8 > 5+0$

Change 4 in B into 5, add 0 to C

<p>1 5 3 10 5 6 7 8 9 0 0 0 8</p> <p>A B C D E F G H I J K L M</p>	<p>Column C: rule $3/8 > 3+6$</p> <p>Change 3 in C into 3, add 6 to D</p>
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<p>1 5 4 2 5 6 7 8 9 0 0 0 8</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 8 from D</p>
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<p>1 5 4 2 9 6 7 8 9 0 0 0 8</p> <p>A B C D E F G H I J K L M</p>	<p>Column D: rule $2/8 > 2+4$</p> <p>Change 2 in D into 2, add 4 to E</p>
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<p>1 5 4 3 1 6 7 8 9 0 0 0 8</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 8 from E</p>
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<p>1 5 4 3 1 8 7 8 9 0 0 0 8</p> <p>A B C D E F G H I J K L M</p>	<p>Column E: rule $1/8 > 1+2$</p> <p>Change 1 in E into 1, add 2 to F</p>
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<p>1 5 4 3 2 0 7 8 9 0 0 0 8</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 8 from F</p>
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<p>1 5 4 3 2 0 8 14 9 0 0 0 8</p> <p>A B C D E F G H I J K L M</p>	<p>Column G: rule $7/8 > 8+6$</p> <p>Change 7 in G into 8, add 6 to H</p>
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<p>1 5 4 3 2 0 9 6 9 0 0 0 8</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 8 from H</p>
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<p>1 5 4 3 2 0 9 7 13 0 0 0 8</p> <p>A B C D E F G H I J K L M</p>	<p>Column H: rule $6/8 > 7+4$</p> <p>Change 6 in H into 7, add 4 to I</p>
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<p>1 5 4 3 2 0 9 8 5 0 0 0 8</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 8 from I</p>
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<p>1 5 4 3 2 0 9 8 6 2 0 0 8</p> <p>A B C D E F G H I J K L M</p>	<p>Column I: rule $5/8 > 6+2$</p> <p>Change 5 in I into 6, add 2 to J</p>
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<p>1 5 4 3 2 0 9 8 6 2 4 0 8</p> <p>A B C D E F G H I J K L M</p>	<p>Column J: rule $2/8 > 2+4$</p> <p>Change 2 in J into 2, add 4 to K</p>
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<p>1 5 4 3 2 0 9 8 6 2 5 0 8</p> <p>A B C D E F G H I J K L M</p>	<p>Column K: rule $4/8 > 5+0$</p> <p>Change 4 in K into 5, add 0 to L</p> <p>Done!</p> <p>123456789/9=15432098.625</p>
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