

Division of 888122 by 898

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

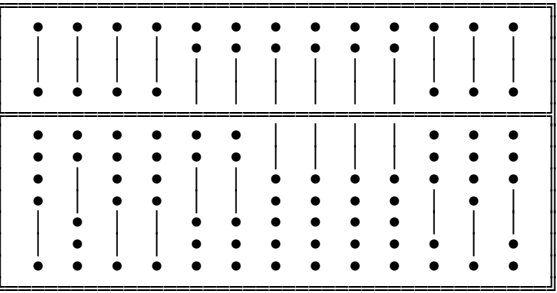
$8/8 > 9+8$

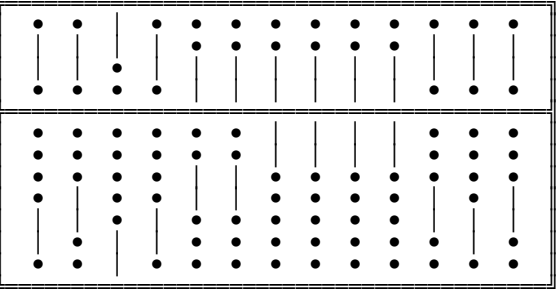
Rule for multi-digit divisor

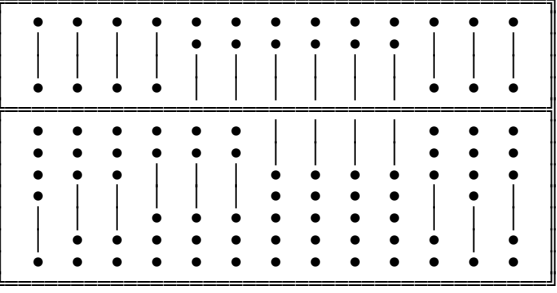
<p>8 8 8 1 2 2 8 9 8</p> <p style="text-align: center;">A B C D E F G H I J K L M</p>	<p>Enter dividend 888122 in A-F. Optionally, enter divisor 898 in K-M</p>
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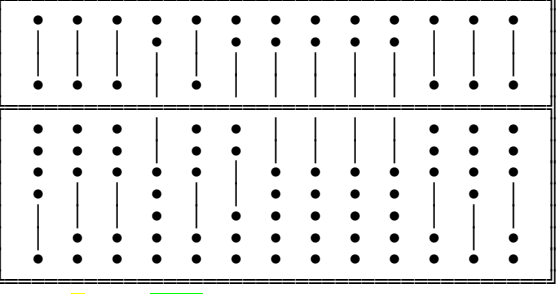
<p>9 16 8 1 2 2 8 9 8</p> <p style="text-align: center;">A B C D E F G H I J K L M</p>	<p>Focus on A and use rule: $8/8 > 9+8$</p> <p>i.e. change 8 in A to 9 and add 8 to B</p>
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<p>9 8 7 1 2 2 8 9 8</p> <p style="text-align: center;">A B C D E F G H I J K L M</p>	<p>Subtract $A \times L = 9 \times 9 = 81$ from BC</p>
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<div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> 9 7 9 9 2 2 8 9 8 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">  </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> A B C D E F G H I J K L M </div>	<p>Subtract $A \times M = 9 \times 8 = 72$ from CD</p>
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<div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> 9 8 15 9 2 2 8 9 8 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">  </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> A B C D E F G H I J K L M </div>	<p>Focus on B and use rule: $7/8 > 8+6$ i.e. change 7 in B to 8 and add 6 to C</p>
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<div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> 9 8 8 7 2 2 8 9 8 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">  </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> A B C D E F G H I J K L M </div>	<p>Subtract $B \times L = 8 \times 9 = 72$ from CD</p>
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<div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> 9 8 8 0 8 2 8 9 8 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">  </div> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> A B C D E F G H I J K L M </div>	<p>Subtract $B \times M = 8 \times 8 = 64$ from DE</p>
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<div style="display: flex; justify-content: space-between;"> 9 8 9 8 8 2 8 9 8 </div> <div style="display: flex; justify-content: space-around; font-size: small;"> ABCDEFGHIJKLM </div>	<p>Focus on C and use rule: $8/8 > 9+8$</p> <p>i.e. change 8 in C to 9 and add 8 to D</p>
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<div style="display: flex; justify-content: space-between;"> 9 8 9 0 7 2 8 9 8 </div> <div style="display: flex; justify-content: space-around; font-size: small;"> ABCDEFGHIJKLM </div>	<p>Subtract $C \times L = 9 \times 9 = 81$ from DE</p>
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<div style="display: flex; justify-content: space-between;"> 9 8 9 8 9 8 </div> <div style="display: flex; justify-content: space-around; font-size: small;"> ABCDEFGHIJKLM </div>	<p>Subtract $C \times M = 9 \times 8 = 72$ from EF</p> <p>Remainder in DEF is zero, so that</p> <p>$888122/898 = 989$</p> <p>Done!</p>
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