The Nines Trick

Multiply any number by nine using this trick. Here's how....

Let's say you wanted to multiply $9 \times 7$.

**Step 1:** Hold up all 10 of your fingers.

Imagine they’re numbered 1 through 10, as you see in the picture.

**Step 2:** Since you’re multiplying $9 \times 7$, you fold

of the folded finger (3).

Your answer is 63.

$9 \times 7 = 63$

Remember: Whatever number you want to multiply by nine, that’s the finger you fold down.

If you wanted to multiply $9 \times 3$, your fingers would look like this:

If you wanted to multiply $9 \times 8$, your fingers would look like this:

$9 \times 3 = 27$

$9 \times 8 = 72$
The Nines Trick

Tell which multiplication fact is shown by the fingers in these pictures. Write the multiplication fact and the answer.

\[ \_ \times \_ = \_ \]

\[ \_ \times \_ = \_ \]

Use the nines trick to solve these multiplication facts.

\[ 9 \times 8 = \_ \]
\[ 9 \times 3 = \_ \]
\[ 5 \times 9 = \_ \]
\[ 6 \times 9 = \_ \]
\[ 9 \times 9 = \_ \]
\[ 9 \times 2 = \_ \]
\[ 4 \times 9 = \_ \]
\[ 9 \times 7 = \_ \]

Can you use the nines trick to solve \[ 6 \times 7 \]? Explain.

______________________________________________________________________________

______________________________________________________________________________

Can you use the nines trick to solve \[ 12 \times 9 \]? Explain.

______________________________________________________________________________

______________________________________________________________________________
**Another Nines Trick**

**Step 1:** Make a column of numbers on your paper from 0 through 9.

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<table>
<thead>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
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</tbody>
</table>

**Step 2:** Next to your column, you’re going to make another column of numbers.

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<tbody>
<tr>
<td>0</td>
<td>9</td>
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<tr>
<td>1</td>
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</table>

**Step 3:** You’ve just written all the answers to your nines times tables. Write the facts next to the numbers.

<p>| | |</p>
<table>
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<tbody>
<tr>
<td>0 9 = 9 x 1</td>
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</tr>
<tr>
<td>1 8 = 9 x 2</td>
<td></td>
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<tr>
<td>2 7 = 9 x 3</td>
<td></td>
</tr>
<tr>
<td>3 6 = 9 x 4</td>
<td></td>
</tr>
<tr>
<td>4 5 = 9 x 5</td>
<td></td>
</tr>
<tr>
<td>5 4 = 9 x 6</td>
<td></td>
</tr>
<tr>
<td>6 3 = 9 x 7</td>
<td></td>
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<tr>
<td>7 2 = 9 x 8</td>
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<tr>
<td>8 1 = 9 x 9</td>
<td></td>
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<tr>
<td>9 0 = 9 x 10</td>
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</tbody>
</table>

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The Nines Trick

Tell which multiplication fact is shown by the fingers in these pictures. Write the multiplication fact and the answer.

9 x 4 = 36
9 x 7 = 63

Use the nines trick to solve these multiplication facts.

9 x 8 = 72
9 x 3 = 27
5 x 9 = 45
6 x 9 = 54
9 x 9 = 81
9 x 2 = 18
4 x 9 = 36
9 x 7 = 63

Can you use the nines trick to solve 6 x 7? Explain.

No. You can only use the nines trick when multiplying by 9.

Can you use the nines trick to solve 12 x 9? Explain.

No. The nines trick only works up to 9 x 10. You don’t have enough fingers to make it work up to 9 x 12.

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