

$$864 \div 27 =$$

$$\begin{array}{r|l} \div & \\ \hline 27 & 864 \end{array}$$

**Step 1:**

Write out the sum using the short division method

$$864 \div 27 =$$

$$\begin{array}{r|l} \div & \\ \hline 27 & \overset{8}{\cancel{8}}64 \\ & 0 \end{array}$$

**Step 2:**

Ask the question  
'Does '27' like '8'?'  
...

No, '27' doesn't like '8.'  
Replace with **0** underneath **8**.  
Place **8** next to the **6**.

$$864 \div 27 =$$

$$\begin{array}{r|l} \div & \\ \hline 27 & \overset{8}{\cancel{8}}\overset{6}{\cancel{6}}4 \\ & 0 \end{array}$$

27 - 1  
54 - 2  
81 - 3

**Step 3:**

Begin to jot down the 27 timetables.

$$864 \div 27 =$$

$$\begin{array}{r|l} \div & \\ \hline 27 & \overset{8}{\cancel{8}}\overset{6}{\cancel{6}}\overset{5}{\cancel{4}} \\ & 0 \quad 81 \end{array}$$

27 - 1  
54 - 2  
81 - 3

**Step 4:**

Ask the question  
'Does '27' like '86'?'  
...

No, '27' doesn't like '86.'  
The nearest multiple of 27 it likes is 81.  
Replace with **81** underneath **86**.  
The difference between **86** and **81** is **5**.  
Place **5** next to the **4**.

$$864 \div 27 =$$

÷		
27	8 <sup>8</sup> <del>6</del> <sup>5</sup> 4	27 - 1 54 - 2 81 - 3
	0 81	

**Step 5:**  
 Ask the question  
 'Does '27' like '54'?'  
 ...  
 Yes, it does as it's a multiple  
 of 27.

$864 \div 27 =$ <table style="border-collapse: collapse; margin-left: 20px;"> <tr> <td style="border-right: 1px solid black; padding-right: 5px; text-align: center;">÷</td> <td style="border-bottom: 1px solid black; padding: 0 10px;">0</td> <td></td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">27</td> <td style="border-left: 1px solid black; padding-left: 5px; padding: 0 10px;">8<sup>8</sup><del>6</del><sup>5</sup>4</td> <td></td> </tr> <tr> <td></td> <td style="padding: 0 10px;">0 81</td> <td></td> </tr> </table>	÷	0		27	8 <sup>8</sup> <del>6</del> <sup>5</sup> 4			0 81		$864 \div 27 =$ <table style="border-collapse: collapse; margin-left: 20px;"> <tr> <td style="border-right: 1px solid black; padding-right: 5px; text-align: center;">÷</td> <td style="border-bottom: 1px solid black; padding: 0 10px;">03</td> <td></td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">27</td> <td style="border-left: 1px solid black; padding-left: 5px; padding: 0 10px;">8<sup>8</sup><del>6</del><sup>5</sup>4</td> <td></td> </tr> <tr> <td></td> <td style="padding: 0 10px;">0 81</td> <td></td> </tr> </table>	÷	03		27	8 <sup>8</sup> <del>6</del> <sup>5</sup> 4			0 81		$864 \div 27 =$ <table style="border-collapse: collapse; margin-left: 20px;"> <tr> <td style="border-right: 1px solid black; padding-right: 5px; text-align: center;">÷</td> <td style="border-bottom: 1px solid black; padding: 0 10px;">032</td> <td></td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">27</td> <td style="border-left: 1px solid black; padding-left: 5px; padding: 0 10px;">8<sup>8</sup><del>6</del><sup>5</sup>4</td> <td></td> </tr> <tr> <td></td> <td style="padding: 0 10px;">0 81</td> <td></td> </tr> </table>	÷	032		27	8 <sup>8</sup> <del>6</del> <sup>5</sup> 4			0 81	
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**Step 6:**  
 27 goes into 0 ... 0 time  
 27 goes into 81 ... 3 times  
 27 goes into 54 ... 2 times