

All the digits - N RICH

$$\begin{array}{r}
 \star \star \star \star \\
 \times \quad \quad \quad 3 \\
 \hline
 \star \star \star \star \star
 \end{array}
 =
 \begin{array}{r}
 4695 \\
 \times \quad \quad \quad 3 \\
 \hline
 14085
 \end{array}$$

Answer:

$$\begin{array}{r}
 5694 \\
 \times \quad \quad \quad 3 \\
 \hline
 17082
 \end{array}$$

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Explanation: Because 3 is used, we have to cross it out. And since the 3rd digit is a sum of two of the consecutive numbers, we can cross out the consecutive numbers 0, 1, 2, or 1, 2, 3 (obviously) and the numbers above 4, 5, 6. This is because the sum will be too big or too small. Then, you will have to 'play' with the numbers, as we can't reuse them. For example, we could get  $4695 \times 3$ , which equals 14085. But since we

Numbers:

1 2 3  
~~4~~ 5 6  
 7 8 9

can't use the same number twice, we can't do that. So we can either do  $5694 \times 3$  or  $6594 \times 3$ . 5694 is the correct answer.