

Name

Date



MULTIPLICATION: 4-DIGITS BY 1-DIGIT CHALLENGE 1

1) Use the digits: 2, 3, 4, 5 and 6 in the spaces below to make the **largest possible answer**. Remember to record the answer!

$$\begin{array}{|c|c|c|c|} \hline & & & \\ \hline \end{array} \times \begin{array}{|c|} \hline \\ \hline \end{array}$$

Is as large as possible.

2) Use the digits: 2, 3, 4, 5 and 6 in the spaces below to make **smallest possible answer**. Remember to record the answer!

$$\begin{array}{|c|c|c|c|} \hline & & & \\ \hline \end{array} \times \begin{array}{|c|} \hline \\ \hline \end{array}$$

Is as small as possible.

3) Use the digits: 2, 3, 4, 5 and 6 in the spaces below to make the answer 16,320.

$$\begin{array}{|c|c|c|c|} \hline & & & \\ \hline \end{array} \times \begin{array}{|c|} \hline \\ \hline \end{array} = \begin{array}{|c|c|c|c|c|} \hline 1 & 6 & 3 & 2 & 0 \\ \hline \end{array}$$

Hint: the first digit of the multiplicand is not the smallest or the largest digit.

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ANSWERS

1) Use the digits: 2, 3, 4, 5 and 6 in the spaces below to make the **largest possible answer**.

$$\begin{array}{|c|c|c|c|} \hline 5 & 4 & 3 & 2 \\ \hline \end{array} \times \begin{array}{|c|} \hline 6 \\ \hline \end{array} = \begin{array}{|c|c|c|c|} \hline 2 & 1 & 6 & 0 \\ \hline \end{array}$$

2) Use the digits: 2, 3, 4, 5 and 6 in the spaces below to make **smallest possible answer**.

$$\begin{array}{|c|c|c|c|} \hline 3 & 4 & 5 & 6 \\ \hline \end{array} \times \begin{array}{|c|} \hline 2 \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline 6 & 9 & 0 \\ \hline \end{array}$$

3) Use the digits: 2, 3, 4, 5 and 6 in the spaces below to make the answer 16,320.

$$\begin{array}{|c|c|c|c|} \hline 3 & 2 & 6 & 4 \\ \hline \end{array} \times \begin{array}{|c|} \hline 5 \\ \hline \end{array} = \begin{array}{|c|c|c|c|c|} \hline 1 & 6 & 3 & 2 & 0 \\ \hline \end{array}$$

