

Name \_\_\_\_\_

Date \_\_\_\_\_

## Multiply Multi-Digit Whole Numbers - Guided Lesson Explanation

### Explanation#1

Step 1a) First, multiply 47 and 25:

$$47 \times 25 \times 20 =$$

Step 2a) Multiply the ones place.

$$\begin{array}{r} 3 \\ 47 \\ \times 25 \\ \hline 235 \end{array}$$

Multiply the tens place, remember to account for the tens with an extra 0.

$$\begin{array}{r} 47 \\ \times 25 \\ \hline 235 \\ 940 \\ \hline 1175 \end{array}$$

Step 3a) Now, multiply 1175 to 20

$$1175 \times 20 =$$

Multiply the ones place.

$$\begin{array}{r} 1175 \\ \times 20 \\ \hline 0000 \end{array}$$

Multiply the tens place, remember to account for the tens with an extra 0.

$$\begin{array}{r} 1 \quad 1 \\ 1175 \\ \times 20 \\ \hline 0000 \\ 23500 \\ \hline 23500 \end{array}$$

The answer is 23,500



Name \_\_\_\_\_

Date \_\_\_\_\_

Step 1b) First, multiply 721 and 351:

$$721 \times 351 \times 441 =$$

Step 2b) Multiply the ones place.

$$\begin{array}{r} 721 \\ \times 351 \\ \hline 721 \end{array}$$

Multiply the tens place, remember to account for the tens with an extra 0.

$$\begin{array}{r} \phantom{0}^1 721 \\ \times 351 \\ \hline 721 \\ 3605X \end{array}$$

Multiply the hundreds place, remember to place an XX to account for two extra 0s.

$$\begin{array}{r} 721 \\ \times 351 \\ \hline 721 \\ 3605X \\ 2163XX \\ \hline 253071 \end{array}$$

Step 3b) Now, multiply 253071 to 441

$$253071 \times 441 =$$

Multiply the ones place.

$$\begin{array}{r} 253071 \\ \times 441 \\ \hline 253071 \end{array}$$



Name \_\_\_\_\_

Date \_\_\_\_\_

Multiply the tens place, remember to account for the tens with an extra 0.

$$\begin{array}{r} 21 \quad 2 \\ 253071 \\ \underline{\quad X 441} \\ 253071 \\ 1012284X \end{array}$$

Multiply the hundreds place, remember to place an XX to account for two extra 0s.

$$\begin{array}{r} 21 \quad 2 \\ 253071 \\ \underline{\quad X 441} \\ 253071 \\ 1012284X \\ 1012284XX \\ 111604311 \end{array}$$

So, the answer is 111,604,311

### Explanation#2

Step 1) First we look to see what is asked of us

“Fill the missing number”

Step 2a) First, multiply 66 and 11:

$$66 \times 11 =$$

Step 2) Multiply the ones place.

$$\begin{array}{r} 66 \\ x \quad 11 \\ \underline{\quad 66} \end{array}$$



Name \_\_\_\_\_

Date \_\_\_\_\_

Multiply the tens place, remember to account for the tens with an extra 0.

$$\begin{array}{r} \text{\small 1} \\ 66 \\ \times \underline{11} \\ 66 \\ \underline{660} \\ 726 \end{array}$$

So, the missing number is 660.

### Explanation#3

Step 1) First we look to see what is asked of us

“Fill the missing number”

Step 2) We will add 272 + 680.

$$\begin{array}{r} 68 \\ \times \underline{14} \\ 272 \\ + \underline{680} \\ \underline{952} \end{array}$$

Step 3) So, answer is 952.

