

Multiply Using Partial Products

Multiply 25×43 . Record the product.

tens ones

Think: I can use partial products to find 25×43 .

Step 1 Multiply the tens by the tens.

$20 \times 4 \text{ tens} = 80 \text{ tens, or } 800.$ \longrightarrow

$$\begin{array}{r} 43 \\ \times 25 \\ \hline 800 \end{array}$$

Step 2 Multiply the ones by the tens.

$20 \times 3 \text{ ones} = 60 \text{ ones, or } 60.$ \longrightarrow

$$60$$

Step 3 Multiply the tens by the ones.

$5 \times 4 \text{ tens} = 20 \text{ tens, or } 200.$ \longrightarrow

$$200$$

Step 4 Multiply the ones by the ones.

$5 \times 3 \text{ ones} = 15 \text{ ones, or } 15.$ \longrightarrow

$$+ 15$$

Step 5 Add the partial products.

$800 + 60 + 200 + 15 = 1,075.$ \longrightarrow

$$\begin{array}{r} 800 \\ 60 \\ 200 \\ + 15 \\ \hline 1,075 \end{array}$$

So, $25 \times 43 = \underline{1,075}$.

Record the product.

1

$$\begin{array}{r} 25 \\ \times 62 \\ \hline \end{array}$$

2

$$\begin{array}{r} 59 \\ \times 38 \\ \hline \end{array}$$

3

$$\begin{array}{r} 85 \\ \times 72 \\ \hline \end{array}$$

4

$$\begin{array}{r} 46 \\ \times 52 \\ \hline \end{array}$$

5

$$\begin{array}{r} 76 \\ \times 23 \\ \hline \end{array}$$

6

$$\begin{array}{r} 38 \\ \times 95 \\ \hline \end{array}$$
