

Multiplying 2-Digit by 2-Digit Numbers

Find 43×26 .

Step 1:

Multiply by the ones.
Regroup if necessary.

What You Think

6×3 ones = 18 ones
Regroup 18 ones as 1 ten
and 8 ones.

6×4 tens = 24 tens
 24 tens + 1 ten = 25 tens
Regroup 25 tens as 2 hundreds
and 5 tens.

What You Write

$$\begin{array}{r} 1 \\ 43 \\ \times 26 \\ \hline 258 \end{array}$$

Step 2:

Multiply by the tens.
Regroup if necessary.

What You Think

20×3 ones = 60 ones
Regroup 60 ones as 6 tens.

20×4 tens = 80 tens
Regroup 80 tens as 8 hundreds.

$$\begin{array}{r} 1 \\ 43 \\ \times 26 \\ \hline 258 \\ \hline 860 \end{array}$$

Step 3:

Add the partial products.

What You Think

$6 \times 43 = 258$
 $20 \times 43 = 860$

$$\begin{array}{r} 1 \\ 43 \\ \times 26 \\ \hline 258 \\ + 860 \\ \hline 1,118 \end{array}$$

← partial products

Find the product.

1. $\begin{array}{r} 38 \\ \times 12 \\ \hline \end{array}$

2. $\begin{array}{r} 64 \\ \times 33 \\ \hline \end{array}$

3. $\begin{array}{r} 49 \\ \times 27 \\ \hline \end{array}$

4. $\begin{array}{r} 85 \\ \times 15 \\ \hline \end{array}$

5. $\begin{array}{r} 26 \\ \times 21 \\ \hline \end{array}$

6. $\begin{array}{r} 73 \\ \times 19 \\ \hline \end{array}$

7. $\begin{array}{r} 57 \\ \times 28 \\ \hline \end{array}$

8. $\begin{array}{r} 91 \\ \times 86 \\ \hline \end{array}$

9. **Number Sense** In the problem 62×45 , what are the partial products?
