

Writing Vertical Records

NCTM Standards 1, 2, 8, 9, 10

Fill in the puzzles.
Then complete the multiplication records.

1

×	40	3	43
20			
8			
28			

$$\begin{array}{r} 40 \\ \times 20 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 20 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 28 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 28 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 28 \\ \hline \end{array}$$

2

×	60		68
9			
39			

$$\begin{array}{r} 60 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ \times 9 \\ \hline 72 \end{array}$$

$$\begin{array}{r} 68 \\ \times 39 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ \times \square \\ \hline 1,800 \end{array}$$

$$\begin{array}{r} 8 \\ \times \square \\ \hline 240 \end{array}$$

$$\begin{array}{r} 68 \\ \times 39 \\ \hline \end{array}$$

$$\begin{array}{r} 68 \\ \times 39 \\ \hline \end{array}$$

Write the partial products on the area models.
Then complete the multiplication records.

3

	40	6
20		
8		

$$\begin{array}{r} 46 \\ \times 28 \\ \hline \end{array}$$

4

	50	5
80		
2		

$$\begin{array}{r} 55 \\ \times 82 \\ \hline \end{array}$$

Complete the multiplication records.

5

$$\begin{array}{r} 40 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ \times 47 \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \end{array}$$

6

$$\begin{array}{r} 60 \\ \times 40 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 40 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ \times 64 \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \end{array}$$

7

$$\begin{array}{r} 50 \\ \times 70 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 70 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 72 \\ \times 56 \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \end{array}$$



8 Challenge How can you find this product in an easy way?

$$\begin{array}{r} 12 \\ \times 45 \\ \hline \end{array}$$

Describe your method:
