

6.1 Expanded Algorithm

For **1** through **10**, use the expanded algorithm to multiply.

1.

$$\begin{array}{r} \times \quad 83 \\ \quad 4 \\ \hline \end{array}$$

partial product

$+$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

partial product

$\hline$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

product

2.

$$\begin{array}{r} \times \quad 57 \\ \quad 6 \\ \hline \end{array}$$

partial product

$+$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

partial product

$\hline$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

product

3.

$$\begin{array}{r} \times \quad 19 \\ \quad 8 \\ \hline \end{array}$$

partial product

$\hline$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

partial product

$\hline$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

product

4.

$$\begin{array}{r} \times \quad 42 \\ \quad 9 \\ \hline \end{array}$$

partial product

$\hline$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

partial product

$\hline$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

product

5.

$$\begin{array}{r} \times \quad 75 \\ \quad 6 \\ \hline \end{array}$$

partial product

$+$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

partial product

$\hline$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

product

6.

$$\begin{array}{r} \times \quad 64 \\ \quad 5 \\ \hline \end{array}$$

partial product

$+$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

partial product

$\hline$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

product

7.

$$\begin{array}{r} \times \quad 17 \\ \quad 9 \\ \hline \end{array}$$

partial product

$+$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

partial product

$\hline$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

product

8.

$$\begin{array}{r} \times \quad 93 \\ \quad 4 \\ \hline \end{array}$$

partial product

$+$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

partial product

$\hline$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

product

9.

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

partial product

$+$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

partial product

$\hline$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

product

10.

$$\begin{array}{r} \times \quad 56 \\ \quad 8 \\ \hline \end{array}$$

partial product

$+$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

partial product

$\hline$

$$\begin{array}{r} \square \square \square \\ \hline \end{array}$$

product

- 11.** A commuter van has 38 seats and 14 windows. How many windows are in 6 commuter vans?

A 70 **B** 84 **C** 102 **D** 228