

Name \_\_\_\_\_

# Connecting the Expanded and Standard Algorithms

For 1 through 4, use the expanded algorithm to multiply.

1. 
$$\begin{array}{r} 83 \\ \times 4 \\ \hline \end{array}$$

$\square\square$  partial product

+  $\square\square\square$  partial product

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$\square\square\square$  product

2. 
$$\begin{array}{r} 57 \\ \times 6 \\ \hline \end{array}$$

$\square\square$  partial product

+  $\square\square\square$  partial product

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$\square\square\square$  product

3. 
$$\begin{array}{r} 19 \\ \times 8 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 42 \\ \times 9 \\ \hline \end{array}$$

For 5 through 10, use the standard algorithm to multiply.

5. 
$$\begin{array}{r} 75 \\ \times 6 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 64 \\ \times 5 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 17 \\ \times 9 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 93 \\ \times 4 \\ \hline \end{array}$$

9. 
$$\begin{array}{r} 28 \\ \times 7 \\ \hline \end{array}$$

10. 
$$\begin{array}{r} 56 \\ \times 8 \\ \hline \end{array}$$

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

12. **Writing to Explain** Suppose you had to find  $4 \times 57$ . How are the expanded algorithm and the standard algorithm alike? How are they different?

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