



Multiply Using Partial Products

- 1** While at the beach, Amanda takes 48 photos of waves. She takes 5 times as many photos of shells. How many photos of shells does she take?
- _____

Estimate. Then use partial products to find the product.

- | | | |
|---|--|--|
| 2 Estimate: _____ | 3 Estimate: _____ | 4 Estimate: _____ |
| $\begin{array}{r} 72 \\ \times 4 \\ \hline \end{array}$ | $\begin{array}{r} 2,519 \\ \times 3 \\ \hline \end{array}$ | $\begin{array}{r} 368 \\ \times 9 \\ \hline \end{array}$ |

Estimate. Then rewrite the problem and use partial products to find the product.

- | | | |
|--------------------------|--------------------------|--------------------------|
| 5 Estimate: _____ | 6 Estimate: _____ | 7 Estimate: _____ |
| 6×76 | 8×435 | $4 \times 3,129$ |

- 8 Math on the Spot** The sum of a 3-digit number and a 1-digit number is 138. The product of the numbers is 536. If one number is between 130 and 150, what are the numbers?
- _____

Test Prep

- 9 Which are partial products for 8×362 ? Select all that apply.

(A) 3,200 (C) 480 (E) 42
(B) 2,400 (D) 240 (F) 16

- 10 Which is the product $4 \times 2,159$?

(A) 8,456
(B) 8,636
(C) 8,960
(D) 12,236

- 11 Kennedy uses partial products to find a product. Which statement best describes her error?

(A) Kennedy writes the incorrect partial product for 3×800 .
(B) Kennedy writes the incorrect partial product for 3×7 .
(C) Kennedy writes the incorrect partial product for 3×40 .
(D) Kennedy adds the partial products incorrectly.

$$\begin{array}{r} 847 \\ \times 3 \\ \hline 2,400 \\ 1,200 \\ + 21 \\ \hline 3,621 \end{array}$$

- 12 What is 9×92 ? _____

Spiral Review

- 13 Find the product.

$$6 \times 8,000 = \underline{\hspace{2cm}}$$

- 14 Estimate the product.

$$4 \times 976$$
