



Standard Algorithm: One-digit and Multi-digit Numbers, with Composing

Let's use the standard algorithm to multiply multi-digit numbers by one-digit numbers.

Warm-up

Number Talk: Partial Product

Find the value of each product mentally.

- 3×3

- 3×20

- 3×600

- 3×623



Activity 1

Compose with the Standard Algorithm

Han calculates 318×3 , using partial products.

$$\begin{array}{r} 318 \\ \times 3 \\ \hline 24 \\ 30 \\ + 900 \\ \hline 954 \end{array}$$

Elena calculates 318×3 , using the **standard algorithm**.

$$\begin{array}{r} 2 \\ 318 \\ \times 3 \\ \hline 954 \end{array}$$

1. What does the 2 in Elena's calculation represent? Explain or show your reasoning.
2. What does the 5 in Elena's solution represent? Explain or show your reasoning.



Activity 2

Use the Standard Algorithm

Calculate each product, using Elena's strategy.

1. $3,615 \times 4$

2. $16,023 \times 3$

3. $27,326 \times 3$

4. $10,215 \times 6$

