# Lesson 4: Standard Algorithm: One-digit and Multi-digit Numbers with Composing 

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


## Warm-up: Number Talk: Partial Product

Find the value of each product mentally.

- $3 \times 3$
- $3 \times 20$
- $3 \times 600$
- $3 \times 623$


## 4.1: Compose with the Standard Algorithm

Here is how Han calculated $318 \times 3$ using partial products.

| 318 |
| ---: |
| $\times \quad 3 \quad 3$ |
| 24 |
| 30 |
| $+\quad 900$ |
| 954 |

Here is how Elena calculated $318 \times 3$ using the standard algorithm.

| 2 |
| ---: |
| 318 |
| $\times \quad 3$ |
| 954 |

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.

## 4.2: 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. $10,215 \times 6$
