# Lesson 6: Standard Algorithm: Multi-digit Numbers with Composing 

- Let's multiply with the standard algorithm and compose new units.


## Warm-up: Number Talk: Three Factors

Find the value of each product mentally.

- $(2 \times 3) \times 10$
- $(2 \times 40) \times 10$
- $(2 \times 200) \times 10$
- $(2 \times 243) \times 10$


## 6.1: Compose a New Unit

1. Find the value of $241 \times 23$.
2. Lin used the standard algorithm to find the value of $241 \times 23$. Here is her work:

a. Where do you see $241 \times 3$ in Lin's work?
b. Where do you see $241 \times 20$ in Lin's work?
c. What does the 1 above 241 represent in Lin's calculation?
3. Use the standard algorithm to find the value of $182 \times 41$.
4. Use the standard algorithm to find the value of $304 \times 23$.

## 6.2: All the Products

Find the value of each product using the standard algorithm.

1. $647 \times 9$
2. $647 \times 50$
3. $647 \times 59$
4. $264 \times 38$
