

## 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.

• 
$$(2 \times 3) \times 10$$

• 
$$(2 \times 40) \times 10$$

• 
$$(2 \times 200) \times 10$$

$$\bullet (2 \times 243) \times 10$$



## 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  $241\times20$  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. 
$$647 \times 9$$

$$2.647 \times 50$$

$$3.647 \times 59$$

$$4.264 \times 38$$