



# 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.

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



Activity 1

## Compose a New Unit

1. Find the value of  $241 \times 23$ .

$$\begin{array}{r} \phantom{0}241 \\ \times \phantom{0}23 \\ \hline \phantom{0}723 \\ + 4,820 \\ \hline 5,543 \end{array}$$

- a. Where do you see  $241 \times 3$  in Lin's work?

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- b. Where do you see  $241 \times 20$  in Lin's work?

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- 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  $304 \times 23$ .



## Activity 2

### All the Products

Find the value of each product, using the standard algorithm.

$$647 \times 9$$

$$647 \times 50$$

$$647 \times 59$$

$$264 \times 38$$

