



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

- Find the value of 241×23 .
- Lin uses the standard algorithm to find the value of 241×23 .

$$\begin{array}{r} 1 \\ 241 \\ \times 23 \\ \hline 723 \\ + 4,820 \\ \hline 5,543 \end{array}$$

- Where do you see 241×3 in Lin's work?

- Where do you see 241×20 in Lin's work?

- What does the 1 above 241 represent in Lin's calculation?



3. Use the standard algorithm to find the value of 182×41 .

4. Use the standard algorithm to find the value of 304×23 .



Activity 2

All the Products

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

647×9

647×50

647×59

264×38

