

Grade 4 Unit 6

Lesson 11

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Unit 6 Lesson 11: Partial Products and the Standard Algorithm

WU Number Talk: The Value of the Digits (Warm up)

Student Task Statement

Find the value of each expression mentally.

- 5 × 101
- 5 × 102
- 5 × 203
- 5 × 404

1 Two Algorithms to Multiply

Student Task Statement

1. Here are two algorithms for finding the value of 3×713 .

Diego

Discuss with your partner:

- a. How are Kiran's algorithm and Diego's algorithm alike? How are they different?
- b. How do you think Kiran found the product 2,139?
- 2. Find the value of each product.

a.
$$212 \times 4$$

b.
$$3 \times 4{,}132$$

2 Algorithm Comparison

Student Task Statement

1. Analyze the two algorithms used to find the value of 4×223 .

Kiran

Diego

- a. How are Kiran and Diego's algorithms alike? How are they different?
- b. Where is the 12 in Kiran's algorithm?
- 2. a. Try using Kiran's algorithm to find the value of 512×3 .
 - b. Check your work using a different method.

Images for Activity Synthesis