## Lesson 10: Using Algorithms with Partial Products: 2 Two-digit Numbers

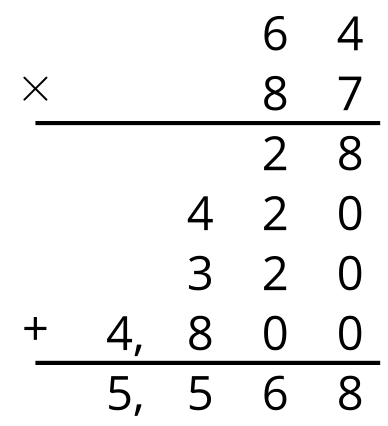
* Let’s try to multiply two-digit numbers with an algorithm that uses partial products.

### Warm-up: Number Talk: Products

Find the value of each expression mentally.

### 10.1: Partial Products, Recorded

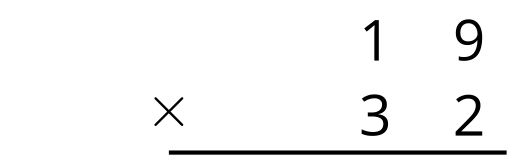
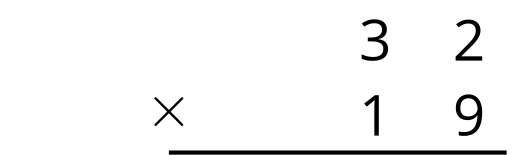
1. Tyler used an algorithm to find the value of .

* 
* How do you think he arrived at the last five numbers? Record your thinking. Be prepared to share it with a partner.

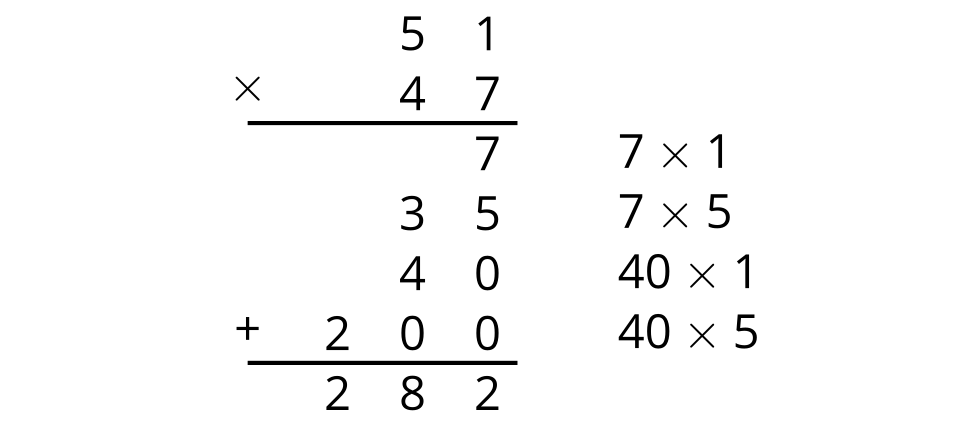
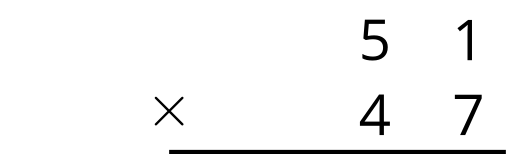
1. Use Tyler’s method to find the value of . Then, draw a diagram to check your answer.

### 10.2: Han’s Multiplication Mishap

1. Decide with your partner who will find each product. Show your reasoning.

* 
* 

1. Here is Han’s computation of .

* 
  1. What error or errors did Han make?
  2. Show the correct computation for finding the value of .
  + 



© CC BY 2021 Illustrative Mathematics®