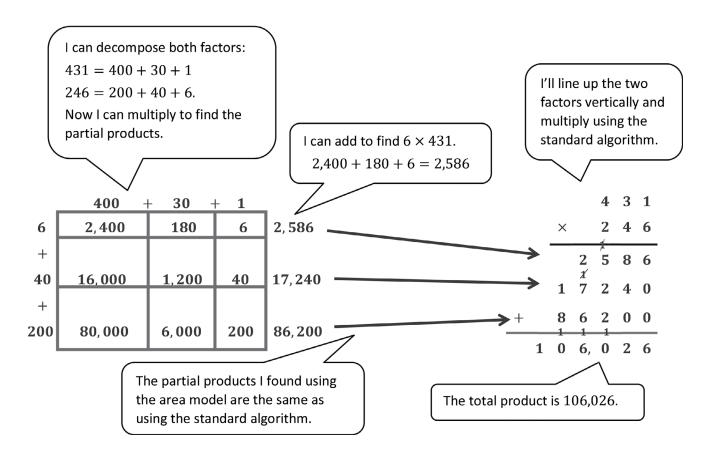
1. Draw an area model. Then, solve using the standard algorithm. Use arrows to match the partial products from the area model to the partial products in the algorithm.

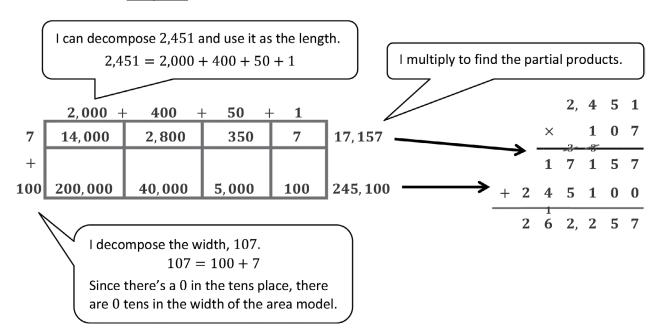
$$431 \times 246 = 106,026$$





2. Solve by drawing the area model and using the standard algorithm.

$$2,451 \times 107 = 262,257$$



3. Solve using the standard algorithm.

$$7,302 \times 408 = 2,979,216$$

 $8 \text{ ones} \times 3 \text{ hundreds} = 24 \text{ hundreds} =$ 2 thousands 4 hundreds. I'll record 2 in the thousands place and write 4 in the hundreds place.

 $4 \text{ hundreds} \times 3 \text{ hundreds} =$ 12 ten thousands. I'll record 1 in the hundred thousands place and write 2 in the ten thousands place.

7, 3 0 2 8 1 4 2 9

9

0 8 0 0 9. 2 1 6  $8 \text{ ones} \times 2 \text{ ones} = 16 \text{ ones} =$ 1 ten 6 ones. I'll record 1 in the tens place and write 6 in the ones place.

4 hundreds + 8 hundreds = 12 hundreds =1 thousand 2 hundreds. I'll record 1 in the thousands place and write 2 in the hundreds place.

Lesson 11:

Connect area models and the distributive property to partial products of the standard algorithm with renaming.



Name	Date

- 1. Draw an area model. Then, solve using the standard algorithm. Use arrows to match the partial products from your area model to the partial products in your algorithm.
  - a. 273 × 346

b. 273 × 306

c. Both Parts (a) and (b) have three-digit multipliers. Why are there three partial products in Part (a) and only two partial products in Part (b)?

- 2. Solve by drawing the area model and using the standard algorithm.
  - a. 7,481 × 290

b. 7,018 × 209

- 3. Solve using the standard algorithm.
  - a. 426 × 357

b. 1,426 × 357

c. 426 × 307

d. 1,426 × 307

4. A high school football stadium holds a maximum of 4,505 people. If 219 games were sold out, how many tickets were purchased in all for the sold out games?

5. One Saturday at the farmer's market, each of the 94 vendors made \$502 in profit. How much profit did all vendors make that Saturday?



Lesson 11: Conn

Connect area models and the distributive property to partial products of the standard algorithm with renaming.