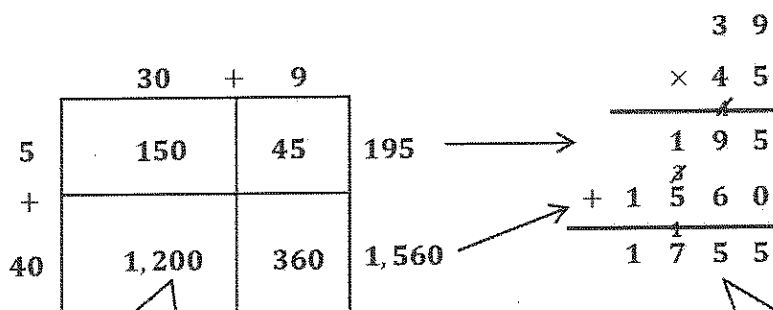## G5-M2-Lesson 6

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 the algorithm.
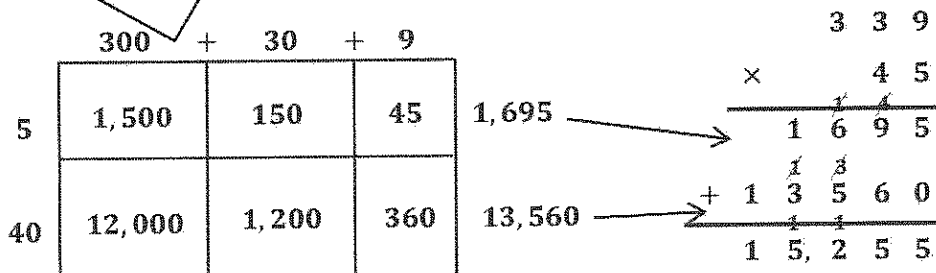
   a. 39×45

I can use unit form to find these partial products. For example, 3 tens × 4 tens is 12 hundreds or 1,200.

There are 2 partial products in the standard algorithm because I multiplied by 45, a 2-digit factor.

   b. 339×45

The area model shows the factors expanded. If I wanted to, I could put the + between the units.

Lesson 6:   Connect area diagrams and the distributive property to partial products of the standard algorithm without renaming.

©2015 Great Minds. eureka-math.org
G5-M1-HWH-1.3.0-07.2015

EUREKA
MATH

2. Desmond bought a car and paid monthly installments. Each installment was $452 per month. After 36 months, Desmond still owes $1,567. What was the total price of the car?

> I'll find out how much Desmond would pay in 36 months.

```
      4  5  2
  ×      3  6
  ─────────────
      2  7  1  2
+ 1   3  5  6  0
  ─────────────
  1   6, 2  7  2
```

```
  1   6, 2  7  2
+      1, 5  6  7
  ─────────────
  1   7, 8  3  9
```

> I'll add what he paid after 36 months to what Desmond still owes.

The total price of the car was $17,839.

> I remembered to write a sentence that answers the question.

EUREKA MATH   Lesson 6:   Connect area diagrams and the distributive property to partial products of the standard algorithm without renaming.   11

©2015 Great Minds. eureka-math.org
G5-M1-HWH-1.3.0-07.2015