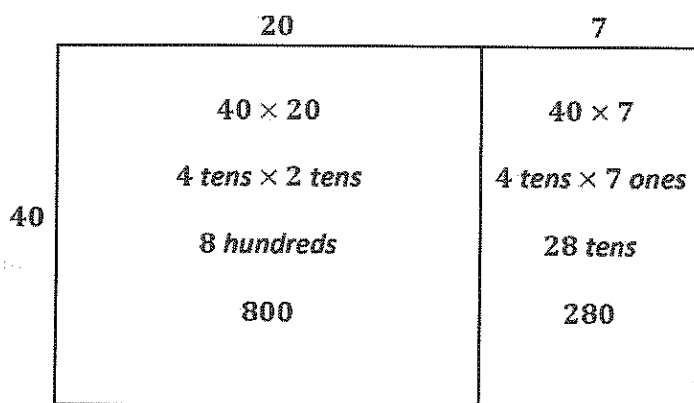


G4-M3-Lesson 35

1. Use an area model to represent the following expression. Then, record the partial products vertically and solve.

$$40 \times 27$$

I write 40 as the width and decompose 27 as 20 and 7 for the length.



I solve for each of the smaller areas.

$$\begin{array}{r}
 27 \\
 \times 40 \\
 \hline
 280 \\
 + 800 \\
 \hline
 1,080
 \end{array}$$

I record the partial products. The partial products have the same value as the areas of the smaller rectangles.

2. Visualize the area model, and solve the following expression numerically.

$$30 \times 66$$

$$\begin{array}{r}
 66 \\
 \times 30 \\
 \hline
 180 \\
 + 1,800 \\
 \hline
 1,980
 \end{array}$$

To solve, I visualize the area model. I see the width as 30 and the length as $60 + 6$. $3 \text{ tens} \times 6 \text{ ones} = 18 \text{ tens}$. $3 \text{ tens} \times 6 \text{ tens} = 18 \text{ hundreds}$. I record the partial products. I find the total. $180 + 1,800 = 1,980$.