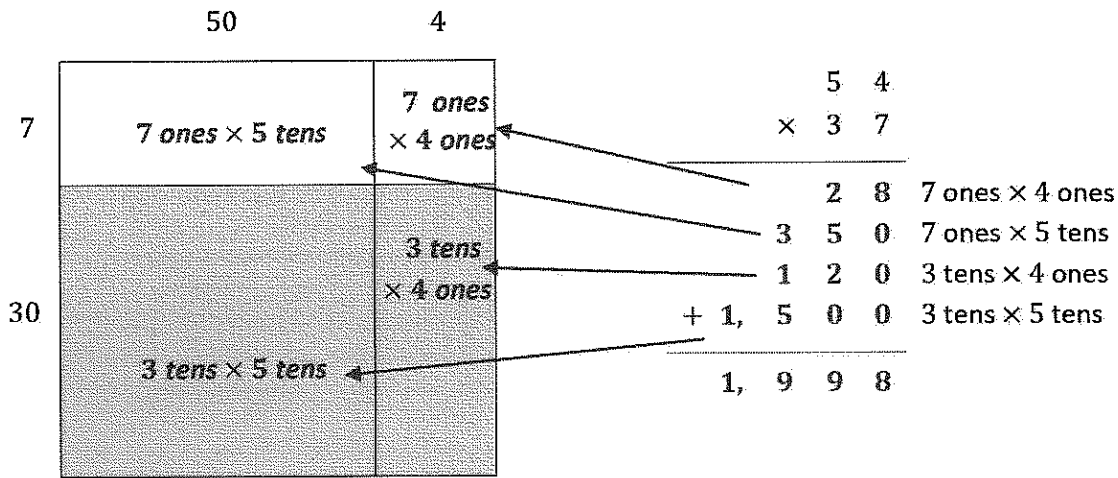
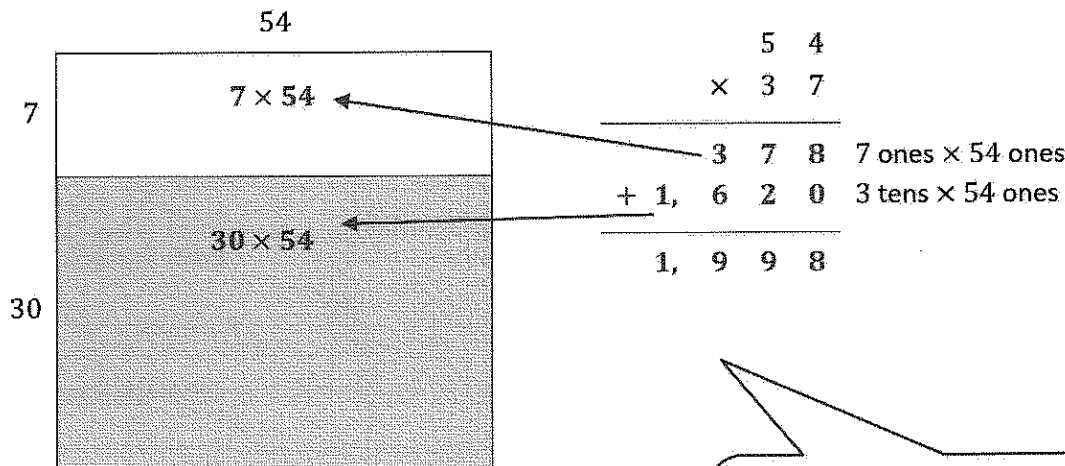


G4-M3-Lesson 37

1. Solve 37×54 using 4 partial products and 2 partial products. Remember to think in terms of units as you solve. Write an expression to find the area of each smaller rectangle in the area model. Match each partial product to its area on the models.



I solve using 4 partial products. This is just like what I did in Lesson 36.



To show 2 partial products, I combine the values of the top two rectangles, and I combine the values of the bottom two rectangles.

I know one partial product is represented by the white portion of the large rectangle. The other partial product is represented by the shaded portion.

2. Solve 38×46 using 2 partial products and an area model. Match each partial product to its area on the model.

$$\begin{array}{r}
 46 \\
 \times 38 \\
 \hline
 368 \\
 + 1,380 \\
 \hline
 1,748
 \end{array}$$

8 ones \times 46 ones

3 tens \times 46 ones

$$\begin{array}{r}
 46 \\
 \times 8 \\
 \hline
 368
 \end{array}$$

$$\begin{array}{r}
 46 \\
 \times 30 \\
 \hline
 1380 \\
 + 1,200 \\
 \hline
 1,380
 \end{array}$$

I solve for the partial products, and then I find their sum.

3. Solve the following using 2 partial products. Visualize the area model to help you.

$$\begin{array}{r}
 74 \\
 \times 25 \\
 \hline
 370 \\
 + 1,480 \\
 \hline
 1,850
 \end{array}$$

5 \times 74

20 \times 74

$$\begin{array}{r}
 74 \\
 \times 5 \\
 \hline
 370
 \end{array}$$

$$\begin{array}{r}
 74 \\
 \times 20 \\
 \hline
 1480 \\
 + 1,400 \\
 \hline
 1,480
 \end{array}$$

I visualize the 2 partial products of 5 ones \times 74 and 2 tens \times 74. I solve for the partial products and then find their sum.