

**Learning Goal:**

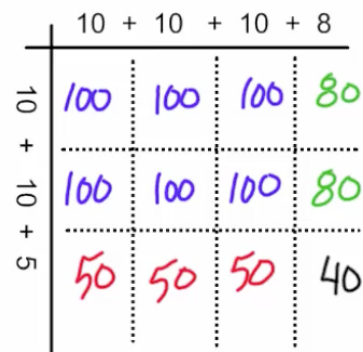
By the end of this lesson I should be able to MULTIPLY double and triple digit positive numbers together using an AREA MODEL, WITHOUT the use of a calculator (technology).

**Example Strategies:** Find the PRODUCT of  $38 \times 25$

Area Model

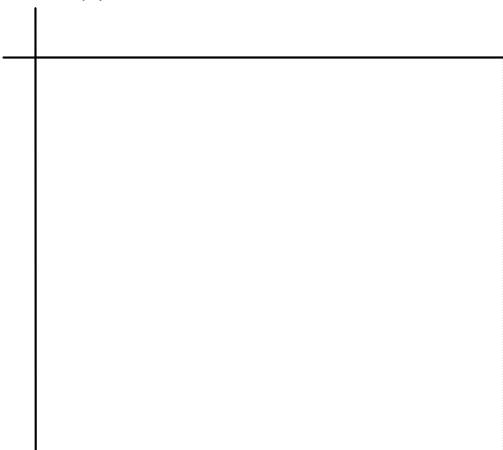
Break the original multiplying numbers up into smaller friendly numbers; find the smaller areas and sum the smaller areas up for the final product.

$$\begin{aligned} 38 \times 25 &= 100+100+100+100+100+100+80+80 \\ &\quad + 50+50+50+40 \\ &= 600 + 160 + 150 + 40 \\ &= 950 \end{aligned}$$

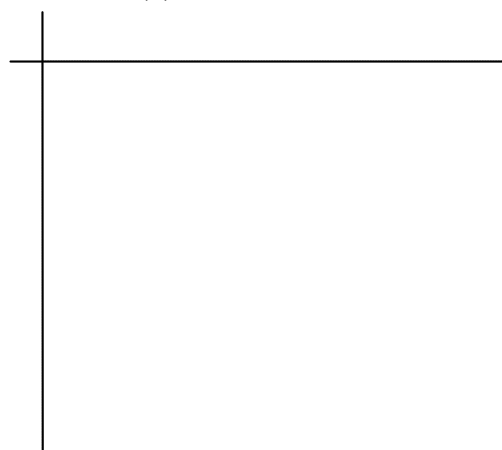
**Skills Practice:**

Use the Area Model to multiply the following:

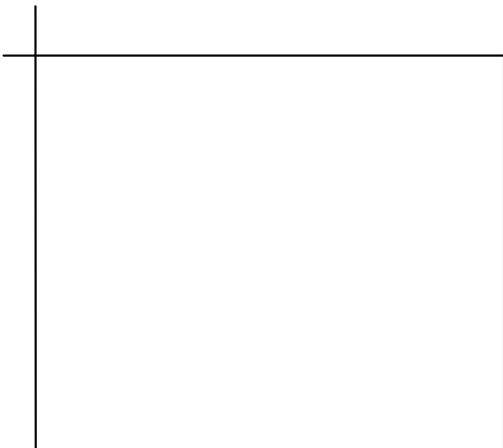
(a)  $22 \times 78$



(b)  $45 \times 64$



(c)  $14 \times 127$



(d)  $132 \times 265$

