

Name \_\_\_\_\_

## Multiplication Strategies Examples

### Partial Product Strategy

$$\begin{array}{r} 53 \\ \times 38 \\ \hline 1,500 \text{ (} 50 \times 30 \text{)} \\ 400 \text{ (} 50 \times 8 \text{)} \\ 90 \text{ (} 30 \times 3 \text{)} \\ + \underline{24 \text{ (} 3 \times 8 \text{)}} \\ 2,014 \end{array}$$

OR

$$\begin{array}{r} 47 \\ \times 24 \\ \hline 940 \text{ (} 20 \times 47 \text{)} \\ + \underline{188 \text{ (} 4 \times 47 \text{)}} \\ 1,128 \end{array}$$

### Distributive Strategy

$$473 \times 8 =$$

$$(400 \times 8) + (70 \times 8) + (3 \times 8) = 3,200 + 560 + 24 = 3,784$$

### Box or Matrix Strategy (This is not lattice multiplication.)

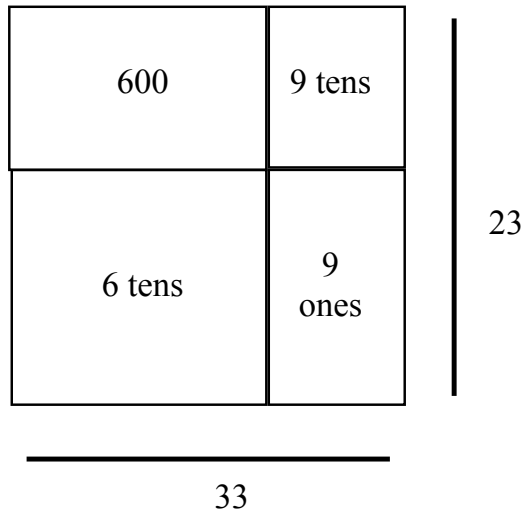
$$96 \times 48 =$$

	90	6	
40	3,600	240	3,840
8	720	48	768
	4,320	288	4,608

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**Area Model Strategy**

$$33 \times 23 =$$



$$\begin{aligned} 30 \times 20 &= 600 \\ 30 \times 3 &= 90 \\ 20 \times 3 &= 60 \\ 3 \times 3 &= 9 \end{aligned}$$

$$600 + 90 + 60 + 9 = 759$$