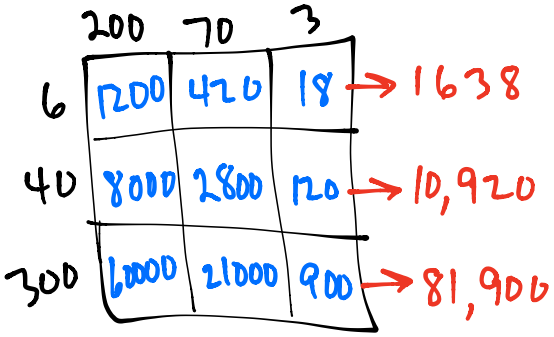
Name _____ Date _____

1. Draw an area model, and then solve using the standard algorithm. Use arrows to match the partial products from your area model to the partial products in your algorithm.

a. 273 × 346 = _____



273

× 346

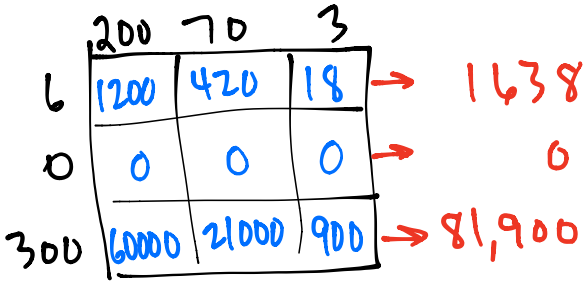
1638

10920

81900

94,458

b. 273 × 306 = _____



273

× 306

1638

+81900

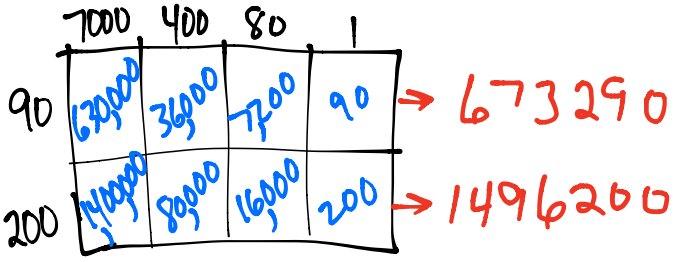
83,538

c. Both Parts (a) and (b) have three-digit multipliers. Why are there three partial products in (a) and only two partial products in (b)?

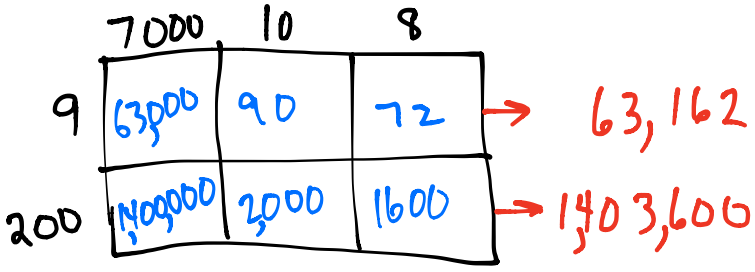
Because in 306 there is no digit/value in the 10's place.

2. Solve by drawing the area model and using the standard algorithm.

a. 7,481 × 290 = _____



b. 7,018 × 209 = _____



3. Solve using the standard algorithm.

a. 426 × 357

$$\begin{array}{r} 426 \\ \times\ 357 \\ \hline 2982 \\ 21300 \\ 127800 \\ \hline 152082 \end{array}$$

b. 1,426 × 357

see next page

c. 426 × 307

$$\begin{array}{r} 426 \\ \times\ 307 \\ \hline 2982 \\ 127800 \\ \hline 130,782 \end{array}$$

d. 1,426 × 307

See next page.

4. The Hudson Valley Renegades Stadium holds a maximum of 4,505 people. During the heights of their popularity, they sold out 219 consecutive games. How many tickets were sold during this time?

$$\begin{array}{r} 4505 \\ \times\ 219 \\ \hline 40545 \\ 45050 \\ +\ 901000 \\ \hline 986595 \end{array}$$

986,595 tickets

5. At the farmer's market, each of the 94 vendors makes $502 in profit each weekend. How much profit will all vendors make on Saturday?

$$\begin{array}{r} 502 \\ \times\ 94 \\ \hline 2008 \\ 45180 \\ \hline 47,188 \end{array}$$

$47,188 profit

2a)

$$\begin{array}{r} 7481 \\ \times\ 290 \\ \hline 673290 \\ +1496200 \\ \hline 2,169,490 \end{array}$$

2b)

$$\begin{array}{r} 7018 \\ \times\ 209 \\ \hline 63162 \\ +1403600 \\ \hline 1,466,762 \end{array}$$

3b)

$$\begin{array}{r} 1426 \\ \times\ 357 \\ \hline 9982 \\ 71300 \\ 427800 \\ \hline 509,082 \end{array}$$

3d)

$$\begin{array}{r} 1426 \\ \times\ 307 \\ \hline 9982 \\ +427800 \\ \hline 437,782 \end{array}$$