

## Multiplication Strategies

### U.S. Algorithm:

$$\begin{array}{r} +2 \\ 34 \\ \times 6 \\ \hline 204 \end{array}$$

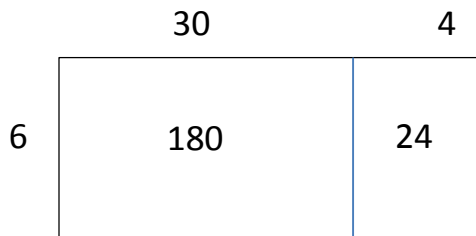
\*Start in the ones position and record your answer in the ones column. Place the ten position into the tens column to add to the product of 6 times 30.

### Break Apart Method:

$$34 \times 6 = (30 \times 6) + (4 \times 6) \\ 180 + 24 \\ 204$$

\*This method can also be called the "break apart" method because you are *breaking apart numbers to solve them*.

### Open Array or Box Method:



$$180 + 24 = 204$$

### Partial Products:

$$\begin{array}{r} 34 \\ \times 6 \\ \hline 24 = 6 \times 4 \\ + 180 = 6 \times 30 \\ \hline 204 \end{array}$$

Start by multiplying the bottom digit in the ones position by each of the proper place values in the top number.

## Arrays

A.

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

3 rows of 4 which is equal to  $4 \times 3 = 12$

B.

X X X X  
X X X X  
X X X X

3 rows of 4 which is equal to  $4 \times 3 = 12$