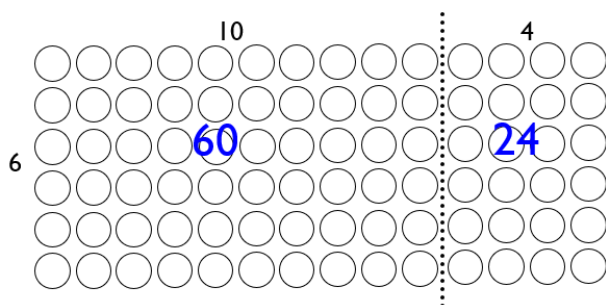


**What Should I Already Know?**

Use arrays and split arrays to show repeated addition of rows and/or columns and that multiplication is commutative.

Use the grid method to calculate two-digit by one-digit multiplication calculations.



x	10	3
8	80	24

What do I need to know?

Use the grid method to calculate two-digit or three-digit by one-digit multiplication calculations. Add together answers using mental/written methods.

x	70	9
8	560	72

$$\begin{array}{r} 560 \\ + 72 \\ \hline 632 \end{array}$$

x	300	40	6
8	2400	320	48

$$\begin{array}{r} 2400 \\ + 320 \\ + 48 \\ \hline 2768 \end{array}$$

Vocabulary

multiply

array

groups

times

lots of

repeated addition

commutative

row

column

grid