

Multiplication

Definition:

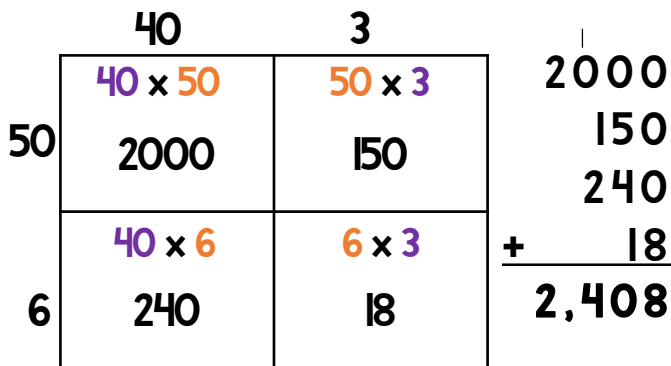
Repeated addition.
Combining equal groups.

Important Words:

Product Multiple
Factors Times

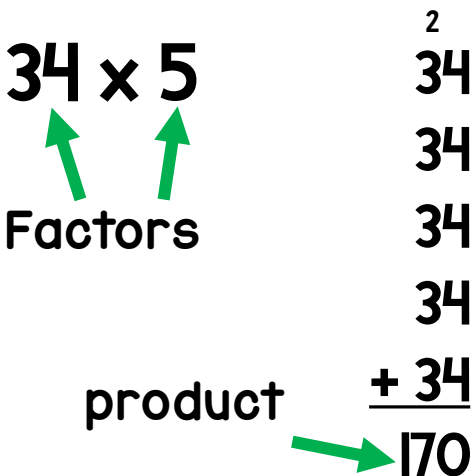
Area Model

43×56



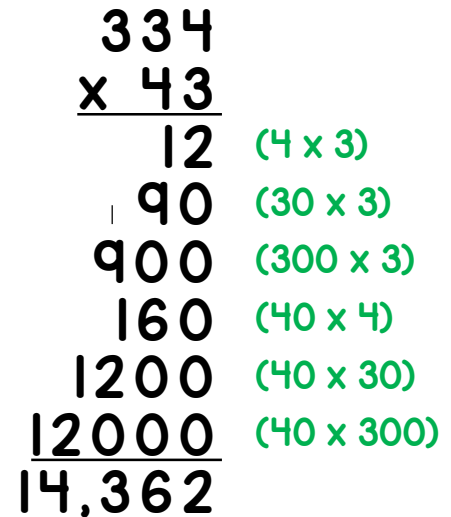
Break apart each factor based on its value. Find the partial products and add them up.

Repeated Addition



Partial Product

334×43



Standard Algorithm

$$\begin{array}{r}
 134 \times 5 \\
 \hline
 134 \\
 \times 8 \\
 \hline
 1,072
 \end{array}$$

$$\begin{array}{r}
 434 \times 54 \\
 \hline
 34 \quad 4 \times 4 = 16 \\
 \times 54 \quad 4 \times 3 = 12 \\
 \hline
 136 \\
 + 1,700 \quad \text{Place Holder} \\
 \hline
 1,836 \quad 5 \times 4 = 20 \\
 \quad \quad \quad 5 \times 3 = 15
 \end{array}$$

Sparked By
Mrs Mark

Division

Definition:

Separating into equal groups.

Important Words:

Quotient • Divisor
Dividend • Partial Quotient



Standard Algorithm

$$\begin{array}{r}
 0726 \\
 6 \overline{)4356} \\
 \underline{-42} \\
 15 \\
 \underline{-12} \\
 36 \\
 \underline{-36} \\
 0
 \end{array}$$

Dangerous
Divide

Monkeys
Multiply

Swipe
Subtract

Bananas
Bring down

Randomly
Repeat

Partial Quotient

$$\begin{array}{r}
 4 \overline{)346} \\
 \underline{-320} \\
 20 \\
 \underline{-20} \\
 0
 \end{array}
 \begin{array}{r}
 80 \\
 + 5 \\
 \hline
 85
 \end{array}$$

Partial Quotients

$4 \times 8 = 32$ & $4 \times 80 = 320$ is

Your Final quotient

