Multiplication with Regrouping

Multiplication with regrouping is the easiest way to multiply by large numbers. Follow the steps below to learn how.



- -First, multiply the numbers in the ones place.
- -Write your result in the ones place and carry any number in the tens place forward.
- -Next, multiply the number in the tens place by the bottom number in the ones place.
- -Add the extra number you carried over to your result and write this number in the tens place.

Example:

Multiply the ones place.
$$\frac{1}{x}$$

$$\begin{array}{c}
 2 \text{ to} \\
 \text{lace.} \\
 \hline
 1
\end{array}$$

$$1 \times 3 = 3$$

your result.
$$\frac{x}{51}$$

For each problem below, follow the steps used in the example to find your solution. Be sure to show all of your work.

16 38 29 24 28 17 2)
$$\times 4$$
 6) $\times 2$ 10) $\times 3$ 14) $\times 4$ 18) $\times 4$ 22) $\times 8$