

Vocabulary For 6-1

- **Algorithm-** The steps followed to solve a problem
- **Partial Product-** Numbers that are part of the product

$$\begin{array}{r} 16 \\ \times \quad 2 \\ \hline 12 \quad \text{(Partial Product)} \\ + \quad 20 \quad \text{(Partial Product)} \\ \hline 32 \end{array}$$

- **Expanded Algorithm-** An extended way of solving a multiplication problem, which breaks the place value into their partial products.

$$\begin{array}{r} 16 \\ \times \quad 2 \\ \hline 12 \quad (6 \times 2 = 12) \\ + \quad 20 \quad (10 \times 2 = 20) \\ \hline 32 \quad \text{[1 in the} \\ \quad \text{tens place} \\ \quad \text{means 1} \\ \quad \text{ten]} \end{array}$$

Vocabulary For 6-3

- **Standard Algorithm-** Multiplying the tens and ones separately, then adding any tens brought over from the ones. The standard algorithm can be thought of as a shortcut to the expanded algorithm.

$$\begin{array}{r} 1 \\ 16 \\ \times \quad 2 \\ \hline 32 \end{array}$$

