Math Study Guide for Unit 2 Multiplication

Vocabulary to Know

Factor	Product	Partial Product
Array	Estimate	Rounding
Associative Property – $3 \times (5 \times 10)$ is the same as $(3 \times 5) \times 10$	Commutative Property – (2 \times 10) \times (6 \times 10) can be reorganized to (2 \times 6) \times (10 \times 10)	Distributive Property – $3 \times (2 + 4)$ is the equal to $(3 \times 2) + (3 \times 4)$
Area Model or Place Value Sections Method	Expanded Method	Algebraic Method

Concepts to Know

- Factoring the Tens
 - \circ 30 x 500 is the same as (3 x 10) x (5 x 10 x 10) when we factor out the 10s
- Similarities and Difference between the various Multiplication Methods
 - For example, the Area Model (Place Value Sections) and the Expanded method both have you EXPANDING the numbers at some point in the process
- Multiplying 1 digit by 2, 3, and 4 digit numbers
 - Example 7×34 , 8×259 , and 9×4183
- Multiplying 2 digit by 2 digit numbers
 - \circ Example 43 x 78
- Estimating a product AND THEN finding an actual answer (2 parts to these questions)
- Understand how to solve a Word Problem
 - Remembering that Problems include EXTRA INFORMATION or TOO LITTLE INFORMATION

Final Thoughts

- Practice <u>FACT FLUENCY</u> Simple mistakes are made when multiplying Basic Facts and adding
- <u>CHECK YOUR ANSWER</u> by doing another Method to Multiply
- Word Problems require you to <u>READ! REREAD! THINK! and SOLVE!</u>
- TAKE YOUR TIME to make certain that all answers make sense!!