**North Penn School District**

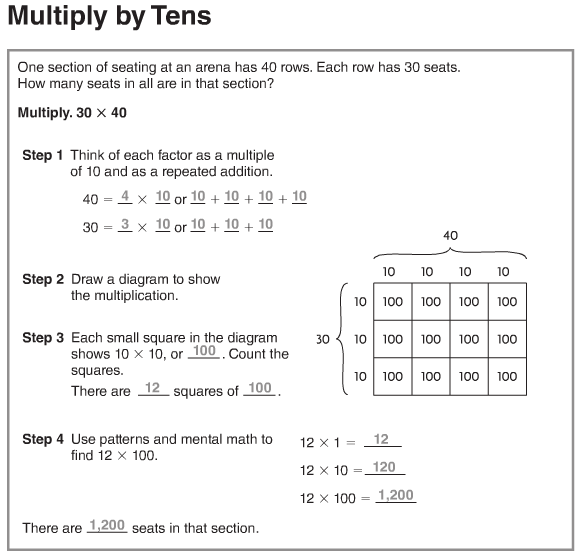
**Elementary Math Parent Letter**

**Grade 4**

**Unit 1 – Chapter 3: Multiply by 2-Digit Numbers**

**Examples for each lesson:**

**Lesson 3.1**



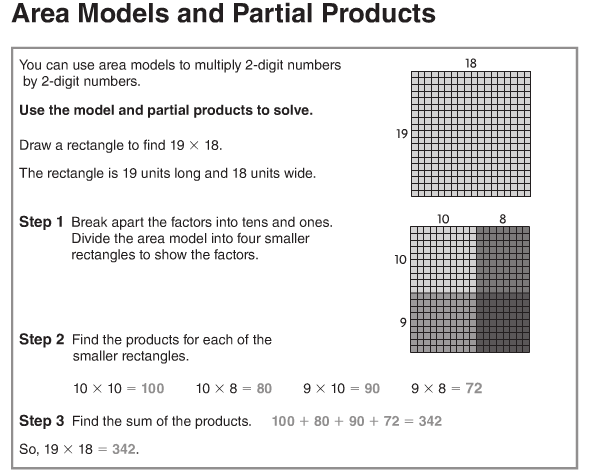
More information on this strategy is available on Animated Math Model #11.

**Lesson 3.2**

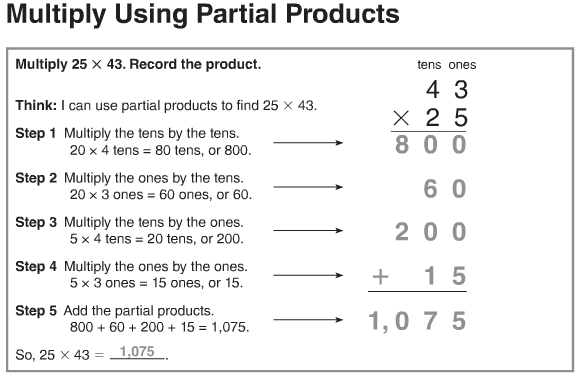


More information on this strategy is available on Animated Math Model #7.

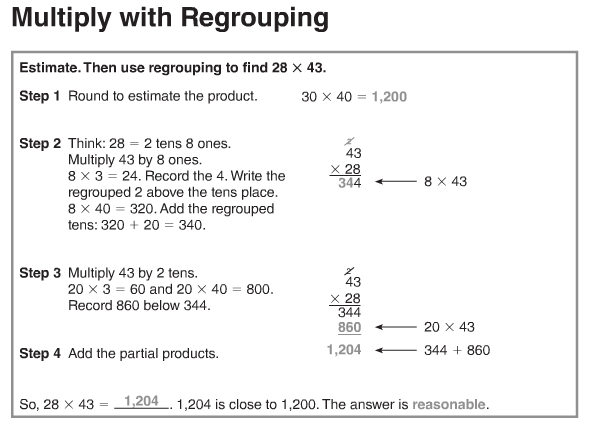
**Lesson 3.3**



**Lesson 3.4**

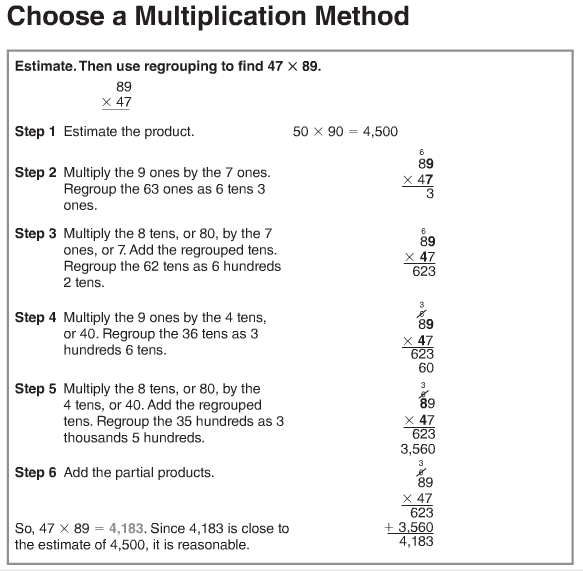


**Lesson 3.5**



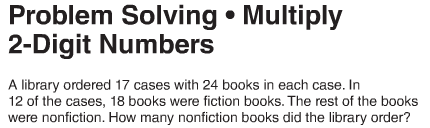
More information on this strategy is available on Animated Math Model #12.

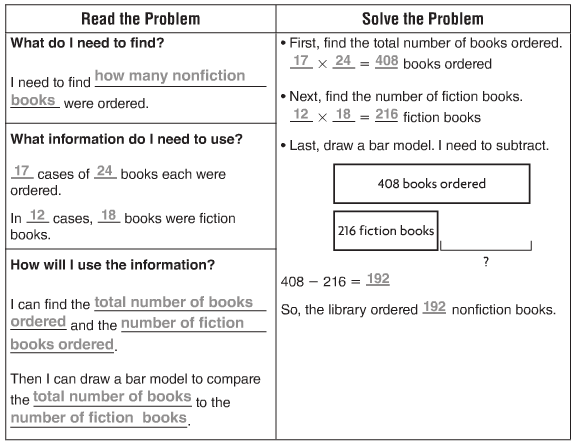
**Lesson 3.6**



More information on this strategy is available on Animated Math Model #12.

**Lesson 3.7**





Vocabulary

**Compatible numbers** – numbers that are easy to compute with mentally

**Associative Property of Multiplication** – the property that states that when the grouping of factors is changed, the product remains the same

**Commutative Property of Multiplication** – the property that states when the order of two factors is changed, the product remains the same

**Estimate** – to find an answer that is close to the exact amount

**Partial product** – a method of multiplying in which the ones, tens, hundreds, and so on are multiplied separately and then the products are added together

**Product** – the answer in a multiplication problem

**Regroup** – to exchange amounts of equal value to rename a number