Multiplication and Division Study Guide

Vocabulary

- **Factor** – A number that is being multiplied

5 x 4 = 20	5 and 4 are both factors

- **Product** – The answer in a multiplication problem

5 x 4 = 20	20 is the product

- **Dividend** – A number that is being divided into equal groups of numbers

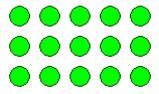| 32 ÷ 4 = 8	32 is the dividend

- **Divisor** – The number you are dividing the whole number by

32 ÷ 4 = 8	4 is the divisor

- **Quotient** – The answer in a division equation

32 ÷ 4 = 8	8 is the quotient

- **Array** – A set model having equal groups representing multiplication

3 x 5 = 15
An array is set up as # of rows by how much is in each row.

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Properties of Multiplication

- **Commutative Property** – no matter what order numbers are multiplied in, the same factors will always have the same product

    Example: 5 x 4 = 20   and   4 x 5 = 20

- **Identity Property** – any number multiplied by one will always be number you multiplied by one

    Example: 7 x 1 = 7   and   1 x 4 = 4

Skills for the test

- **Multiplication facts** – Be able to multiply facts 0-12

- **Division facts** – Be able to divide by numbers 0-12

- Anything multiplied by zero is zero

- Anything divided by zero is **impossible**

- Be able to multiply 2 digit numbers up to 99 by a single digit number, 5 or less.

- Be able to identify when a given property (commutative or associative) of multiplication is being used.

- Be able to solve story problems with multiplication or division.