## Chapter 3 - Understand Multiplication

Addend - Any numbers that are added in addition.
Example:
$2+3=5$

## addend addend

Array - An arrangement of objects in rows and columns.

## Example:


$3 \times 4=12$

Commutative Property of Multiplication - The property that states that you can multiply two factors in any order and get the same product.

## Example:

$$
\begin{aligned}
& 2 \times 4=8 \\
& 4 \times 2=8
\end{aligned}
$$

Equal groups - Groups that have the same number of objects.


Factor - A number that is multiplied by another number to find a product.
Examples:
4
$4 \times 7=28 \quad \frac{\times 7}{28}$
The factors are 4 and 7 .

Identity Property of Multiplication - The property that states that the product of any number and 1 is that number.

## Example:

$5 \times 1=5$
$1 \times 8=8$

Multiply - When you combine equal groups, you can multiply to find how many in all; the opposite operation of division.

Number Sentence - A sentence that includes numbers, operation symbols, and a greater than or less than symbol or an equal sign.

## Example:

$5+3=8$ is a number sentence.

Product - The answer in a multiplication problem.

## Example:

$3 \times 8=24$


Related facts - A set of related addition and subtraction, or multiplication and division, number sentences.

## Examples:

$$
\begin{aligned}
& 4 \times 7=28 \\
& 7 \times 4=28 \\
& 28 \div 4=7 \\
& 28 \div 7=4
\end{aligned}
$$

Unknown - the missing factor or quantity in multiplication or division.

## Example:



Variable - A symbol or letter that stands for an unknown number.

Zero Property of Multiplication - The property that states that the product of zero and any number is zero.

## Example:

$0 \times 6=0$

