

**1.2/1.3 Properties of Numbers****Identity Property****Identity Property of Addition:**

Adding zero to a number does not change the number.

Ex)  $99 + 0 = 99$

**Identity Property of Multiplication:**

Multiplying any number by 1 does not change the number.

Ex)  $12 \times 1 = 12$

**Commutative Property****Commutative Property of Addition**

Changing the order of the numbers does not change the sum.

Ex)  $3.1 + 2.4 = 2.4 + 3.1$

**Commutative Property of Multiplication**

Changing the order of the numbers does not change the product.

Ex)  $3 \times 2 = 2 \times 3$

**Associative Property****Associative Property of Addition:**

Changing the grouping does not change the sum.

Ex)  $(4 + 5) + 6 = 4 + (5 + 6)$

**Associative Property of Multiplication :**

Changing the grouping does not change the product.

Ex)  $(4 \times 5) \times 6 = 4 \times (5 \times 6)$

**Zero Property**

The product of 0 and any number is zero.

Ex)  $5 \times 0 = 0$