- The natural numbers are the set of numbers used when counting these are the numbers [1, 2, 3, 4, 5, ....].
- The whole numbers are the set of natural numbers and zero: these are the numbers (0, 1, 2, 3, 4, 5, ...).
- . The integers are the set of whole numbers and their apposites; these are the numbers [..., -3, -2, -1, 0, 1, 2,
- . The rational numbers are the set of numbers that can be expressed as a fraction of two integers where the denominator is not zero. Rational numbers include the set of natural numbers, whole numbers, and integers.

-5, 3, 0, 2, VE6, 2 1, 0.6, 2.15

· The irrational numbers are the set of numbers that cannot be expressed as a fraction of two integers.

m.c. V3. V10

. The real numbers are the set of extional numbers and intentional manyboxs.

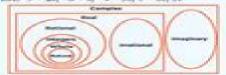
-4, a, 2, \(\sigma\), \(\sigma

· The imaginary numbers are the set of square roots of negative mambers, written in the form bi, where h is a nonzero real number and  $J = \sqrt{-1}$ .

-54, d. 34, \(\sqrt{-9}\), \(-\sqrt{-100}\)

 The exemplex numbers are the set of real numbers. plus an imaginary number, written in the form

 $\omega + h$ , where  $\omega$  and b are real numbers and  $I = \sqrt{-1}$ . EX: 9 + 2c +6 + c -4 - 3c, 7 - 6c, 5c



## **Solving Equations**

When you perform the same operation to each side of an equation, the result is a new equation that has the same solution. Equations that have the same solution(s) are equivalent equations.

Using the Addition Property of Equality

The Addition Property of Equality states that when the some number is added to open purobers, the sums are open. RULE: If a, b, and c are any real numbers and a = b, then and the principle of the second

2 - 2 - 2 - 2

Applying this property to equations, when the same numher is added to each side of an equation, the result is an equivalent equation.

 $M_{x} = 3 = 11$ , then x = 3 = 3 = 11 = 3, or x = 14.

Using the Subtraction Property of Equality

The Subtraction Property of Equality states that when the same number is subtracted from equal numbors, the differences are count.

RULE. If is, b, and c are any real numbers and  $ar = b_1$  them ar - ar = b - ar

Applying this property to equations, when the same number is subtracted from each side of an equation, the result is an equivalent equation.

If y + 7 = 15, then y + 7 - 7 = 15 - 7, or y = 8.

#### Using the Multiplication Property of Equality

The Mudtiplication Property of Equality states that when equal numbers are multiplied by the same number, the products are equal.

RULE. If a, b, and c are any real numbers and a = b, then day in their

5-4-5-4

U. CAMBO

Applying this property to equations, when both sides of an equation are multiplied by the same real number, the result is an equivalent equation.

If  $\frac{x}{6} = 3$ , then  $\left[\frac{x}{6}\right]_{6} = (3)_{6}$ , or x = 18

### Using the Division Property of Equality

The Division Property of Equality states that when equal numbers are divided by the same numbers number, the questionts are equal.

RULE: If a, b, and c are any real numbers, c if 0, and

$$\omega \sim h$$
, then  $\frac{\sigma}{c} = \frac{h}{c}$ 

1.5 1.5 HENC:

Applying this property to equations, when both sides of an equation are divided by the same nonzero real number, the result is an equivalent equation.

EX: If 
$$7x = 21$$
, then  $\frac{7x}{2} = \frac{21}{2}$ , or  $x = 3$ 

#### Solving Multistep Equations

Some equations require more than one inverse operation. to solve. The goal when solving a multistep equation is to isolate the variable (i.e., get it by itself). To do this, use the properties of equality. If there are like terms on one side of an equation, they should be combined before using the properties.

Solve the equation 5x = 3x - 1 = 15

b. 
$$5x + 3x - 1 = 15$$
  
b.  $8x - 1 = 15$ 

- c. One the Addition Property of Squality to under the subtraction and holds the
- e. Due the Division Property of Squality to undo the multiplication and isolate One workships.
- L. Simulific.

#### Variables on Both Sides

When an equation has variables on both sides, the objective is to get all variable terms on the same side of the equation. by using either the Addition or Subtraction Property of Expanding.

0.000 Solve the equation 6m - 8 = 2m

- 4m 8 0
- Am-Selection Cont. 46.  $A_{int} = 8$ .
- p. Original reportions
- b. Use the Subbraction Property of Equality to move the variable been The second edition
- c. Simplify.
- d. Use the Addition Property of Equality to harlote the sociable town.
- e. Simplify.
- E. Uher the Olivinion Property of Equality the hardate the variable.

g. Simplify.

## Solving Absolute Value Equations

The absolute value of a number is its distance from zero on the number line. Therefore, the equation |x == 4 has two solutions, 4 and -4, sloor both have a distance of 4 units from zero on the number line.

To solve an equation A = b, where b is a positive number, solve the disjunction A = b or A = -b. EX: Solve the equation |x + 7| = 3

a. Original equation

a | x + 7 | = 3 x + 7 = 3 or x + 7 = -3

ts. Writte per a disjunction. c. Due the Subtraction Property of

4 x + 7 - 7 = 3 - 7 orx + 7 - 7 = -3 - 7

Equality on both equations to bolids: Oher schoolschile. d. Smallby.

4. x = -4 or x = -10

## Solving Inequalities

An inequality shows the relationship between two numbers or expressions. The solution of an inequality is the set of numbers that make the inequality true.

## Addition & Subtraction Properties

The Addition and Subtraction Properties of Inequality state that adding or subtracting the same number on each side of an inequality produces an equivalent inequality. If a, b, and c are real numbers, then the following are true:

Addition Property of Inconstity: If  $a \ge b$ .

then a+c>b+c; if a<b, then a+c<b+c. Subtraction Property of Inequality: If  $a \ge b$ ,

then a-c>b-c; if  $a\leq b$ , then  $a-c\leq b-c$ .

None that similar statements hold true for ≥ and ≤. NUMBERSON EXAMPLES

Addition Property of Inequality; Since 4 > 2, then 4 + 1 > 2 + 4; since 3 < 5, then 3 + 6 < 5 + 6.

Subtraction Property of Inequality: Since 9 > 2, then  $k-1 \ge 2-1$ ; since  $4 \le 7$ , then  $4-2 \le 7-2$ .

ALGEBRAIC EXAMPLES: Addition Property of Inequality: If  $\rho = 3 \le 11$ , then n = 3 + 3 + 11 + 3, or p = 14.

Subtraction Property of Inequality: If x = 9 > 16, then x + y - y > 16 - y, or x > 7.

## **Multiplication & Division Properties**

The Multiplication and Division Properties of Inequality state that multiplying or dividing each side of an inequality by a positive number makes an equivalent inequality. These properties also state that multiplying or dividing each side of an inequality by a negative member and reversing the direction of the inequality symbol make an equivalent

Given it, h, and e are real manthers:

Where c is positive	Where c is negative
Harrist, by them are 40 ber	III as it by them are to be:
If at it is, them are in the	If $a \ge b$ , then $ac \le bc$

Note that similar statements hold true for  $\geq$  and  $\leq$ .

NUMERIC EXAMPLES. Multiplication Property of Inequality:

Since 2 < 5, then 2 = 3 < 5 = 3c since <math>2 < 5, then 

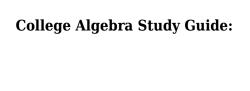
Since 6 > 4, then 6 = 4 > 4 = 4; since 6 > 4, then A PROPERTY OF STREET

Division Property of Inequality:

Since  $4 \le 6$ , then  $\frac{4}{5} < \frac{6}{5}$ ; since  $4 \le 6$ , then Since 9 > 3, then  $\frac{9}{2} > \frac{3}{2}$ ; since 9 > 3, then  $\frac{9}{2}$ 

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**LL Leslie** 



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