

## Sets of Numbers

- The **natural numbers** are the set of numbers used when counting; these are the numbers  $\{1, 2, 3, 4, 5, \dots\}$ .
- The **whole numbers** are the set of natural numbers and zero; these are the numbers  $\{0, 1, 2, 3, 4, 5, \dots\}$ .
- The **integers** are the set of whole numbers and their opposites; these are the numbers  $\{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$ .
- 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.

EX:  $-5, \frac{3}{4}, 0, 2, \sqrt{16}, 2\frac{1}{2}, 0.6, 2.35$

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

EX:  $\pi, e, \sqrt{5}, \sqrt{10}$

- The **real numbers** are the set of rational numbers and irrational numbers.

EX:  $-4, \pi, \frac{7}{8}, \sqrt{5}, \sqrt{64}, 0.125, \sqrt{25}, 0.7$

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

EX:  $-5i, i, 3i, \sqrt{-9}, -\sqrt{-100}$

- The **complex numbers** are the set of real numbers plus an imaginary number, written in the form  $a + bi$ , where  $a$  and  $b$  are real numbers and  $i = \sqrt{-1}$ .

EX:  $9 + 2i, -6 + i, -4 - 3i, 7 - 6i, 5i$



## 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 same number is added to equal numbers, the sums are equal.

**RULE:** If  $a$ ,  $b$ , and  $c$  are any real numbers and  $a = b$ , then  $a + c = b + c$ .

EX:  $2 + 7 = 2 + 7$

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

EX: If  $x - 3 = 11$ , 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 numbers, the differences are equal.

**RULE:** If  $a$ ,  $b$ , and  $c$  are any real numbers and  $a = b$ , then  $a - c = b - c$ .

EX:  $12 - 8 = 12 - 8$

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

EX: If  $y + 7 = 15$ , then  $y + 7 - 7 = 15 - 7$ , or  $y = 8$

## Using the Multiplication Property of Equality

The **Multiplication 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  $ac = bc$ .

EX:  $5 \cdot 4 = 5 \cdot 4$

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

EX: 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 nonzero number, the quotients are equal.

**RULE:** If  $a$ ,  $b$ , and  $c$  are any real numbers,  $c \neq 0$ , and

$a = b$ , then  $\frac{a}{c} = \frac{b}{c}$

EX:  $\frac{15}{3} = \frac{15}{3}$

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  $\frac{7x}{7} = \frac{21}{7}$ , 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.

EX: Solve the equation  $5x + 3x - 1 = 15$

- $5x + 3x - 1 = 15$
- $8x - 1 = 15$
- $8x - 1 + 1 = 15 + 1$
- $8x = 16$
- $\frac{8x}{8} = \frac{16}{8}$
- $x = 2$

- Original equation
- Combine like terms.
- Use the Addition Property of Equality to undo the subtraction and isolate the variable term.
- Simplify.
- Use the Division Property of Equality to undo the multiplication and isolate the variable.
- Simplify.

## 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 Equality.

EX: Solve the equation  $6m - 8 = 2m - 2m$

- $6m - 8 = 2m$
- $6m - 2m - 8 = 2m - 2m$
- $4m - 8 = 0$
- $4m - 8 + 8 = 0 + 8$
- $4m = 8$
- $\frac{4m}{4} = \frac{8}{4}$
- $m = 2$

- Original equation
- Use the Subtraction Property of Equality to move the variable term to one side.
- Simplify.
- Use the Addition Property of Equality to isolate the variable term.
- Simplify.
- Use the Division Property of Equality to isolate the variable.
- 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  $-4$ , since both have a distance of 4 units from zero on the number line.

To solve an equation  $|x| = b$ , where  $b$  is a positive number, solve the disjunction  $x = b$  or  $x = -b$ .

EX: Solve the equation  $|x + 7| = 3$

- $|x + 7| = 3$
- $x + 7 = 3$  or  $x + 7 = -3$
- $x + 7 - 7 = 3 - 7$  or  $x + 7 - 7 = -3 - 7$
- $x = -4$  or  $x = -10$

- Original equation
- Write as a disjunction.
- Use the Subtraction Property of Equality on both equations to isolate the variable.
- Simplify.

## 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 Inequality:** If  $a > b$ ,

then  $a + c > b + c$ ; if  $a < b$ , then  $a + c < b + c$ .

**Subtraction Property of Inequality:** If  $a > b$ ,

then  $a - c > b - c$ ; if  $a < b$ , then  $a - c < b - c$ .

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

### NUMERIC EXAMPLES

**Addition Property of Inequality:** Since  $4 > 2$ , then

$4 + 1 > 2 + 1$ ; since  $3 < 5$ , then  $3 + 6 < 5 + 6$ .

**Subtraction Property of Inequality:** Since  $9 > 2$ , then

$9 - 1 > 2 - 1$ ; since  $4 < 7$ , then  $4 - 2 < 7 - 2$ .

### ALGEBRAIC EXAMPLES

**Addition Property of Inequality:** If  $p - 3 < 11$ , then

$p - 3 + 3 < 11 + 3$ , or  $p < 14$ .

**Subtraction Property of Inequality:** If  $x + 9 > 16$ , then

$x + 9 - 9 > 16 - 9$ , 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 number and reversing the direction of the inequality symbol make an equivalent inequality.

Given  $a$ ,  $b$ , and  $c$  are real numbers:

Where $c$ is positive:	Where $c$ is negative:
If $a < b$ , then $ac < bc$ .	If $a < b$ , then $ac > bc$ .
If $a > b$ , then $ac > bc$ .	If $a > b$ , then $ac < bc$ .

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

### NUMERIC EXAMPLES

**Multiplication Property of Inequality:**

Since  $2 < 5$ , then  $2 \cdot 3 < 5 \cdot 3 = 15$ ; since  $2 < 5$ , then

$2 \cdot (-3) > 5 \cdot (-3)$ .

Since  $6 > 4$ , then  $6 \cdot 4 > 4 \cdot 4 = 16$ ; since  $6 > 4$ , then

$6 \cdot (-4) < 4 \cdot (-4)$ .

**Division Property of Inequality:**

Since  $4 < 6$ , then  $\frac{4}{2} < \frac{6}{2}$ ; since  $4 < 6$ , then  $\frac{4}{-2} > \frac{6}{-2}$ .

Since  $9 > 3$ , then  $\frac{9}{3} > \frac{3}{3}$ ; since  $9 > 3$ , then  $\frac{9}{-3} < \frac{3}{-3}$ .

# College Algebra Study Guide

**Raffaela Di Napoli**



## **College Algebra Study Guide:**

## **College Algebra Study Guide** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**College Algebra Study Guide**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web jan 29 2020 solution number of moles of solute ethyl alcohol  $n_b = 23 \text{ g} / 46 \text{ g mol}^{-1} = 0.5 \text{ mol}$  number of moles of solvent water  $n_a = 54 \text{ g} / 18 \text{ g mol}^{-1} = 3 \text{ mol}$  total number of moles  $n_a + n_b = 0.5 + 3 = 3.5 \text{ mol}$  mole fraction of solute ethyl alcohol  $x_b = n_b / n_a + n_b = 0.5 / 3.5 = 0.1429$

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web question 1 find the mole fraction of methanol  $\text{CH}_3\text{OH}$  and water in a solution prepared by dissolving 4.5 g of alcohol in 40 g of  $\text{H}_2\text{O}$  molar mass of  $\text{H}_2\text{O}$  is 18 gm mole and molar mass of  $\text{CH}_3\text{OH}$  is 32 gm mole solution moles of  $\text{CH}_3\text{OH}$   $4.5 / 32 = 0.14$  mole moles of  $\text{H}_2\text{O}$   $40 / 18 = 2.2$  moles therefore according to the equation

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web we used mole fractions in gen chem 1 to describe gas mixtures where the partial pressure of a gas was its mole fraction time the total pressure  $p_a = x_a p_t$  mole fraction  $x_a = \frac{\text{moles } a}{\text{total}}$  mole fraction of substance

a is often denoted by  $x_a$  and

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web 1 in the given mixture the sum of all the mole fractions is equal to one  $x_a + x_b + \dots = 1$  the multiplication of the mole fraction by 100 gives the mole percentage 3 mole fraction is a unitless and dimensionless expression advantages of molar fraction mole fraction is not dependent on the temperature

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web nov 6 2023  $x_a$  mol a mol b and  $x_b$  mol b mol a mol b note in the given mixture the sum of all the mole fractions present is equal to one  $x_a + x_b = 1$  when the mole fractions are multiplied by 100 they give the mole percentage mole fraction is a unitless and dimensionless expression image will be uploaded soon

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web solution total mass of the answer 100 g mass of benzene 30 g therefore mass of carbon tet 100 - 30 = 70 g benzene's molar mass  $C_6H_6$  120 g/mol 78 g/mol hence  $C_6H_6$ 's number of moles  $\frac{30}{78}$  mol 0.3846 mol molar mass of carbon tet  $CCl_4$  154 g/mol

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web jan 30 2020 ans the molality of solution is 1 mol/kg or 1 m example 0.2111 g of urea  $NH_2CONH_2$  was dissolved in 100 g of water calculate the molarity and molality of the solution given n 14 h 1 c 12 o 16 given mass of solute urea 11.11 g mass of solvent water 100 g 0.1 kg to find molarity of solution solution

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web solution moles of  $CH_3OH$  5.532017 mole moles of  $H_2O$  40.1822 moles therefore according to the equation mole fraction of  $CH_3OH$   $\frac{5.532017}{5.532017 + 40.1822} = 0.12073$  to solve more examples on mole fraction formula and practice more question please visit byju s com

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web you may work out the mole fractions on your own problem 5 what is the mass of a 0.449 molal KBr that contains 2.92 kg of water 1 molality moles solute divided by kilograms solute 0.449 mol/kg  $\times 2.92 \text{ kg} \times 131.108 \text{ mol of KBr}$

moles times molar mass equals grams 1 31108 mol 119 0023 g mol 156 g kbr

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web calculate the mass percent mole fraction molality and molarity of hexane  $C_6H_{14}$  and molarity of hexane  $C_6H_{14}$  when it is mixed with heptane  $C_7H_{16}$  in a 35.0 mL ratio assume that the volumes are additive

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web notice that the mole fraction has no units on it and is written as a decimal value do not change it to percent note of caution you could see the term mole percent it is simply the mole fraction multiplied by 100 for example in the problem just below the mole fraction of cinnamic acid is 0.2885 its mole percent would be 28.85

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web jan 8 2022 mol % x 100 the sum of all of the mole percents of a mixture equals 100 mole fraction properties and advantages the mole fraction offers advantages over some of the other units of concentration unlike molarity mole fraction is *worksheet mole fraction ms fleming* - Jun 11 2023

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web a derivatization that achieves this goes as molarity moles of solute volume of solution in liter moles molarity x volume in liter mass moles x molar mass numerical answers 1

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web solution a  $3.8 \times 10^5$  grams b  $4.11 \times 10^4$  grams c  $7.31 \times 10^2$  grams 4 7 1 mole practice with guidance exercises is shared under a not declared license and was authored remixed and or curated by libretexts these are homework exercises to accompany the textmap created for chemistry a molecular approach by nivaldo tro

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web what is the mole fraction of LiCl in the solution 11.8 practice problem acetone  $C_3H_6O$  has a density of 0.791 g/mL and

xylene  $C_8H_{10}$  has a density of  $0.864 \text{ g/ml}$  a solution was prepared by mixing acetone and xylene calculate the mole fraction of acetone in a solution if  $19.0 \text{ ml}$  of acetone was dissolved in  $98.4 \text{ ml}$  of xylene 7.1

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web since the mole fraction of the  $O_2$  is  $0.050$  it contributes  $0.050$  or if you will  $5.0\%$  of the total pressure thus total pressure is  $0.2105042 \text{ atm}$  problem 9 a sample of  $1.43 \text{ g}$  of helium and an unweighed quantity of  $O_2$  are mixed in a flask at room temperature