## Common Core State Standards

Algebraic Expressions, Writing Equations, Solving Inequalities, Functions, Arthmetic Sec

## ALCEBRAIC EXPRESSIONS & PROPERTIES

A warfalble is a symbol that is used to represent an unknown quantity. An algebraic expression is a mathematical expression that contains one or more variables, one or more numbers, and one or more arithmetic operations.

BOX of the  $A_{20} + 2_{12} + 2$ 3ar + Ter - 1

#### Order of Operations

The order of operations is a set of rules that ! determine which operations to perform first when evaluating a numerical expression.

260	Evaluate.	va inflation.	growing-long.	repetitibilities.

- Evaluate all powers.
- 3. Multiply and divide from left to right. 4. Add and subtract from left to right.

#### Properties of Real Numbers

For neal members or, A, and c, the following properties are true.

Property	Expression .
Commutative Property of Addition	a + b - b + a
Commutative Property of	an - h - h - ar
Multiplication	
Associative Property of Addition	a = (b + c) = (a = b) + c
Associative Property of	ar three marks or
No. Control	

Distributive Property and the market are been as not Additive Identity Property de la Chamber Additive Inverse Property  $ar \in (-ab) = 0$ Multiplicative Inverse Property

Multiplicative Property of Zero

#### Parts of an Expression

A term is a number, variable, or the product of numbers and variables in an expression. Like terms are terms that have the same variables raised to the same powers. Two quantities that are being multiplied in an expression are called factors. The coefficient of a term is the memorical factor of the term. A term that executes of a number and no variables is called a constant.

### REASONING WITH QUANTITIES \*\*\*\*\*\*

The units of a quantity can help you understand and solver madri-stop problems.

#### Dimensional Analysis

amorther net of units.

Dimensional analysis is the process of using conversion factors to change from one set of units to

EX1 Janie jogged 495 feet in 45 seconds. What was her spood in miles per hour?

Withe the given information as a ratio. Then use appropriate conversion factors to change units.

A seed 3 mail 45. 10 5280 B 46800 N II seed 60 6 I mail

Convert from Court has madeless

Conserved forces managements has produced and T media 7.5 mil 1 But

Convert from minutes tion becomes.

Jamie's speed was 7.5 miles per hour.

#### Modeling with Appropriate Units

When modeling with quantities, it is important to choose appropriate units.

EX: Suppose a tourist buys a map of Florida while on vocation. What might the scale of the map be? What units would represent the actual distance between cities?

> The map is a small-scale drawing of the state. Distances on the map will be very small compared to the actual distances between cities. A scale for the map might be 1 cm = 250 km or 2 in. = 175 mi. The distances between the actual cities would be meanured in miles or kilometers.

## Accuracy & Precision

Accuracy describes how close a measured value is to the actual value.

EX: Thomas is 5 feet 10.25 inches tall. A

measurement of 5 feet 10 inches is more accurate than a measurement of 6 feet when describing his benight.

Precision describes the exactness of a measurement and is dependent on the unit of measure. The precision unit is the smallest unit on the tool being used to measure. As the units of measurement get smaller, the measurement. gets more procise.

EX: A ruler that measures in millimeters is more

procise than a ruler that measures in continuous. EX1. For a scale that gives weight in pounds and

ounces, the procession unit is ounces.

## WRITING EQUATIONS

An execution is a number archeocy that states that two quantities are equal to each other. The verbal expressions equals, in, is equal to, and is the same as indicate an Committee of

Verbal Expression	Requestions
The sum of a number and 5 is equal to 12.	m+3-12
Frank separated his DVDs into 4 operal stacks of 15 each.	d = 4 = 1.5

## Modeling with Equations

Equations can be used to model real-world situations and melve problems.

EX: Roggie's little sister is 3 years younger than him. The sum of their ages is 27 years. How old is Regard?

- Define a vocable.
  - Let r represent Respect's age-
- Translate the verbal description into an equation.

Reggie's age: r Reggie's sister's age: r - 3 Sum of their ages: r = (r - 3)

Because the sum of their ages is 27 years, the equation r = (r - 3) = 27 models the situation.

You can verify that the solution to the equation in r = 15. So, Reggie is 15 years old. In the next section, you will learn several methods for solving equations.

# SOLVING EQUATIONS AMELANDS

You can use the following properties of equality to solve equations.

- Addition Property of Equality: If you add the same number to both sides of an equation, the two sides remain equal.
  - Subtraction Property of Equality: If you subtract the same number on both sides of an equation, the two sides remain equal.
  - Multiplication Property of Equality: If you multiply both sides of an equation by the same number, the two sides remain equal.
- Division Property of Equality: If you divide both sides of an equation by the same nonzero number, the two sides remain count.

## Solving Multi-step Equations

Equations that have multiple operations and more complicated expressions are called multi-step equations. To solve these types of equations, simplify both sides as much as you can and use the properties you have learned to unido the operations.

EX: A coin-operated car wash costs \$1.75 plus \$0.50 per minute of use. Showns spent \$7.75 using the cut wash. Solve the equation 1.75 = 0.5m = 2.75 to find the number of minutes, w. that she used the car wash.

> $1.75 + 0.5\omega - 7.75$  $1.75 - 1.75 + 0.5\omega - 7.75 - 1.75$

60.5 mg = 6-

260.5mg - 2666

Original aspantion Substract 1.75 Sween guight side. Simplify. Multiply each side by 2.

Simplify. Shawna used the car wash for 12 minutes.

#### **Math Practice 3:** Construct viable arguments and critique the reasoning and southwestern.

Earth time were appely as property of real mambers. or a property of equality to transform an equation, you com puntify that both sides of the equation are still equal. As you solve equations, think about which property alliens you to transdom It into an consistant forms.

# **Maths 9th Grade Study Guide**

Wenbin Ji

Maths 9th Grade Study Guide:

# Maths 9th Grade Study Guide Book Review: Unveiling the Power of Words

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