# Common Core State Standards

# High School

Equations, Functions, Sequences, Polynomials, Data Analysis, and More!

### ALCEBRAIC EXPRESSIONS & PROPERTIES

A variable 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.

### Writing Expressions

Verbal expressions can be translated into algebraid expressions.

Vertical Expression	Algefernie Expression
a number decreased	m - 15
by 15 8 less than 3 times a mumber	3a - 8
the quotient of a number and 2 plus 5 times the number	# + 5m
6 more than the cube of a number	W* = 6
a number increased by 3, quantity squared, divided by 5	5

### Order of Operations

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

- 1. Evaluate within grouping symplects.
- 2. Evaluate all powers.
- 3. Multiply and divide from left the eligibit.
- 4. Add and subtract from left to

### Properties of Real Numbers

For real numbers a, h, and c, the following properties are true.

Property	Expression
Commutative Property of Addition	Service de marchen
Commutative Property of Multiplication	and the first the same
Associative Property of Addition	(a + (b + c) + (a + b) + c
Associative Property of Multiplication	ar (h-a) = (a-h) -c
Distributive Property	artife the property of the con-
Additive Identity Property	$\omega = 0 = \omega$
Additive Inverse Property	$\omega = (-\omega) = 0$
Multiplicative Inverse Property	$ar\left(\frac{1}{ar}\right)=1$ , $ar \neq 0$
Multiplicative Property of Zero	a : 0 = 0

### Properties of Equality & Substitution

For real numbers a, h, and c, the following properties are true.		
Pergeraty	Description	Symbols
Reflexive Property	A muniber or quantity is equal to itself.	***
Symmetric Property	If a quantity is equal to another quantity, then the second quantity is equal to the first quantity.	If $a = b$ , then $b = a$ .
Transitive Property	If a quantity equals a second quantity and the second quantity equals a third quantity, then the first quantity equals the third quantity.	If $a = b$ and $b = c$ , then $a = c$ .
Substitution Property	If two quantities are equal, then end quantity may be substituted for the other in an expression.	If a = b, then b can be substituted for a in an expression, and vice versa.

### 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 I same variables raised to the same powers. Two quantities that \* are being multiplied in an expression are called factors. The esefficient of a term is the numerical factor of the term. A term that consists of a number and no variables is called a constant.

- EX1 Identify the terms, factors, and coefficients in the expression -6e' v 4e - 2e.
  - 1. There are 3 terms; -6w', 4u, and -2u.
  - 2. The terms 4n and -2n are like terms because they have the same variable raised to the same power.
  - 3. The factors of the terms are -6, w, and w for the first teries, 4 and a for the second term, and -2 and a for the shield become
  - 4. The coefficients of the terms are -6, 4, and -2.
- EX: To compute annual compound interest, you multiply the principal investment by the quantity of one plus the interest rate, raised to the muniber of years of compounding. Define quantities and write an expression to model compound interest. Describe the parts of the Charlesonica.
  - 1. Define variables.
  - Let P represent the principal investment, let r represent the interest rate, and let a represent the number of SHOWING.
  - 2. Translate the verbal expression into an algebraic engerieskom
    - "enabliphy the principal": P.
    - "quantity of one plus the interest rate, raised to the mumber of years': (it. v.v)r.
    - The expression is P(1 + e):
  - 3. Describe the parts of the expression.
  - The expression contains two factors: P and (1 + x): The first factor is the variable P. The second factor contains the variables r and n.

### QUANTITIES NOT NOT REASONING WITH

The units of a quantity can help you understand and solve multi-step problems.

### **Dimensional Analysis**

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

EX1 Jamie jugged 495 feet in 45 seconds. What was her speed in miles per hour? Write the given information as a ratio. Then use appropriate conversion factors to observe units.

495 N 1 mi 1 mi 45 s 5280 M 480 s

Convert from feet to miller.

1 mi 60 / 1 mi 480 / I min 8 min

Convert from seconds to minutes.

640 peetly 7.5 mil

Convert from entimules to Burnanne

### Modeling with Appropriate Units

When modeling with quantities, it is

important (	to choose appropriate units.
Quantity.	Common Units
Rength or	millimeter (mm), continueter
distance	Gently, meter (m), killometer
	(km), inch (in.), foot (ff), yand
	(yd), mile (mi)
STREET, ON	contigram (cg), gram (g),
twenght	kilogram (kg), ource (mr), pound (lb), ton (T)
emporeity.	millitar (ml.), liner (L.),
Cont.	kiloliter (kL), fluid ounce
workumer	(If oot), cup (c), pint (pt).
	quart (qt), gallion (pal), cubic
	centimeters (cm'), cubic meters
	(m'), cubic inches (in.'), cubic
	foot (fit), cubic yands (ydf)
and a	required multilementors (meet).
	square centimeters (em'),
	square meters (mr), square kilometers (km²), square inches
	(in./), square feet (II'), square
	yards (yd'), square miles (mir)

### Accuracy & Precision

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

EX1. 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 beright.

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 puts miore procine.

- EX: A ruler that measures in millimeters is more precise than a ruler that measures in continuous.
- EX1: For a scale that gives weight in pounds and ounces, the precision unit in dumous.

Just because a measure in more precise, does not mean it is more accurate.

EX1. The actual length of a block of wood is 3 feet. A measurement of 5 Sect 3 inches in more precise than a measurement of 4 feet, but it is less accurate than 4 feet which is closer to the actual length of 3 feet.

### Math Practice 6: Attend to precision.

When solving multistop problems, it is important to communicate precisely to others. This includes using appropriate units of measure, calculating accountely, and expressing maturical answers with an appropriate degree of precision.

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