

Understanding Algebraic Relationships

6th Grade Common Core

TERM 2 UNIT 4

6.EE.A.2

6.EE.A.2A

6.EE.A.2B

6.EE.A.2C

6.EE.A.3

6.EE.A.4

6.EE.B.6

Ms. Jully

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[Learn Zillion Video Lessons Homepage](#)

[KHAN Academy Practice Homepage](#)

[Interactive Games: Like Terms](#)

[KHAN Academy Video Lessons Homepage](#)

[Interactive Games: Exponents](#)

[Interactive Games: Order of Operations](#)

[Virtual Nerd Video Lessons Homepage](#)

[Songs](#)

[Miscellaneous Video Lessons](#)

[Interactive Games: Expressions & Equations](#)

[A Little Math Humor](#)

[IXL Practice](#)

[Interactive Games: Facts & Factors](#)

[Citations](#)

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Read, Write, & Evaluate Algebraic Expressions

6.EE.A.2

6.EE.A.2a

6.EE.A.2b

6.EE.A.2c

Apply Properties of Operations to Generate Equivalent

Expressions

Slide 3

6.EE.A.3

Apply Properties of Operations to Generate Equivalent Expressions

Slide 1

6.EE.A.3

Apply Properties of Operations to Generate Equivalent

Expressions

6.EE.A.4

Apply Properties of Operations to Generate Equivalent Expressions

Slide 2

6.EE.A.3

Understand That Variables Represent Unknown Numbers & Use Variables to Solve Problems

6.EE.B.6

HOME

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6.FF.A.2 a-c

**Combine Parts of an Expression:
Using the Associative Property**

**Simplify Addition and
Subtraction Expressions:
Combining Like Terms**

**Write Word Problems as
Algebraic Expressions**

**Simplify Multiplication and
Division Expressions:
Combining Like Terms**

[Back To](#)

[Learn Zillion](#)

[Homepage](#)

[HOME](#)

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6.F.F.A.3 Slide 1

**Create Equivalent Expressions
Using Diagrams**

**Factor Expressions by
Grouping Diagrams**

**Apply Distributive Property
Using Diagrams**

**Create an Equivalent
Expression Using the Standard
Algorithm**

**Apply Distributive Property
Using Repeated Addition**

Justify Equivalent Expressions

**Factor Expressions Using the
Distributive Property and
Area Models**

[Back To](#)

[Learn Zillion](#)

[Homepage](#)

[HOME](#)

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6.F.F.A.3 Slide 2

Combine Like Terms Using Commutative and Associative Properties

Regroup with Distributive Property by Using a Visual Model

Simplify Algebraic Expressions by Combining Like Terms

Regroup Algebraic Expressions by Applying the Distributive Property

Apply Distributive Property by Using a Visual Model

Simplify Algebraic Expressions by Combining Like Terms and Applying the Distributive Property

[Back To](#)

[Learn Zillion](#)

[Homepage](#)

[HOME](#)

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6.F.F.A.3 Slide 3

**Write Equivalent Expressions
Using the Additive Identity
Property of Zero and the
Multiplicative Identity
Property of One**

**Write Equivalent Expressions
Using the Additive Inverse
Property**

**Write Equivalent Expressions
Using the Distributive Property
of Multiplication Over Addition**

**Write Equivalent Expressions
Using the Multiplicative Inverse
Property**

[Back To](#)

[Learn Zillion](#)

[Homepage](#)

[HOME](#)

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6.F.F.A.4

Understand Equations Using Balance Scales

Read and Write Equivalent Expressions with Variables and Exponents

Write Equivalent Expressions Using Visual/Area Model

Write Equivalent Expressions by Combining Like Terms

[Back To](#)

[Learn Zillion](#)

[Homepage](#)

[HOME](#)

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6.FF.B.6

Understand How Variables are Used

Write Algebraic Expressions Using Addition and Subtraction

Write Algebraic Expressions Using Multiplication and Division

Write Multi-step Algebraic Expressions

Determine Whether an Algebraic Expression Matches a Scenario

[Back To](#)

[Learn Zillion](#)

[Homepage](#)

[HOME](#)

KHAN Academy Video Lessons Homepage

**Read, Write, & Evaluate
Algebraic Expressions**

6.EE.A.2

6.EE.A.2a

**Read, Write, & Evaluate
Algebraic Expressions**

6.EE.A.2 b

6.EE.A.2c

**Apply Properties of Operations
to Generate Equivalent
Expressions**

6.EE.A.3

6.EE.A.4

**Understand That Variables
Represent Unknown Numbers &
Use Variables to Solve Problems**

6.EE.B.6

Review Order of Operations

Super Yoga Word Problems

HOME

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6.F.F.A.2

and

6.F.F.A.2 a

What is a Variable?

Writing Simple Algebraic Expressions

Writing Algebraic Expressions; Word Problem

Why Aren't We Using the Multiplication Sign?

Writing Algebraic Expressions

Writing Algebraic Expressions; Word Problem Example 2

Expression Terms, Factors, and Coefficients

Writing Algebraic Expressions; Example 2

Writing Algebraic Expressions; Example 3

Back To

KHAN Academy

Video Homepage

HOME

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Review Order of Operations

Introduction to Order of Operations

Order of Operations: PEMDAS

Order of Operations Example: Putting It All Together

Order of Operations Example

Order of Operations Examples: Exponents

[Back To](#)

[KHAN Academy](#)

[Homepage](#)

[HOME](#)

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6.FF.A.2b and 6.FF.A.2c

Evaluating an Expression Example

Evaluating an Expression Using Substitution

Evaluating an Expression with Exponents

Evaluating Expressions with Two Variables

Evaluating an Expression in a Word Problem

Back To

KHAN
Academy

Homepage

HOME

Khan Academy Video Lessons

6.FF.A.3 and 6.FF.A.4

Combining Like Terms

Adding Expressions

Combining Like Terms Explained

Combining Like Terms Example 2

Equivalent Forms of Expressions

Back To

KHAN
Academy

Homepage

HOME

Khan Academy Video Lessons

6.FF.B.6

**Variables,
Expressions, and
Equations**

**Testing Solutions to
Equation**

**Substituting
Variable; and
Judging Inequalities**

**Substituting
Variable; and Simple
Equation**

**Substituting
Variable; and
Solving for an
Equality**

**Substituting
Variable; and
Solving for an
Inequality**

**Testing Solutions to
Inequalities**

Back To

KHAN
Academy

Homepage

HOME

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Super Yoga Word Problems

Variables and Equations Word Problem: Putting them to work for Super Yoga

Variables and Equations Word Problem: Which Super Yoga Plan is Best?

Back To

KHAN
Academy

Homepage

HOME

Miscellaneous Video Lessons

[**Distributive Property-
Friendship Bracelets: PB&
MathClub**](#)

[**Combining Like Terms**](#)

[**Like Terms Video**](#)

[**Math Shorts Episode 6-
Equivalent Expressions
with the Distributive
Property**](#)

[**Distributive Property by
Shmoop**](#)

[**Math Antics-Order of
Operations**](#)

[**Easy System to Solve Word
Problems**](#)

[**Commutative,
Distributive, Associative,
Identity**](#)

[**Properties**](#)

[**Algebraic Expressions
Number Game: Art of
Problem Solving**](#)

[**Study Jams!: Function
Tables**](#)

[**Study Jams!: Order of
Operations**](#)

[**Study Jams!: Word
Problems - Identify
Missing or Extra
Information**](#)

[**Exploring Exponents and
Scientific Notation**](#)

HOME

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Read, Write, & Evaluate Algebraic Expressions

6.EE.A.2 6.EE.A.2a 6.EE.A.2b

Read, Write, & Evaluate Algebraic Expressions

6.EE.A.2c

Apply Properties of Operations to Generate Equivalent Expressions

6.EE.A.3

6.EE.A.4

Understand That Variables Represent Unknown Numbers & Use Variables to Solve Problems

6.EE.B.6

HOME

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6.FF.A.2

6.FF.A.2a

6.FF.A.2b

Evaluating Expressions with Variables
Word Problems

Writing Expressions I

Writing Expressions II

Writing Expressions with Variables
Word Problems

Identifying Parts of Expressions

Back To

KHAN
Academy

Practice
Homepage

HOME

KHAN Academy Practice

6.F.F.A.2c

Evaluating Expressions in 2 Variables

Evaluating Expressions with Exponents

Evaluating Expressions in One Variable

Evaluating Exponent Expressions Word Problems

Evaluating Expressions with Variable Word Problems

Writing Expressions with Exponents

Order of Operations

Writing Expressions with Exponents Word Problems

Back To

KHAN
Academy

Practice
Homepage

HOME

KHAN Academy Practice

6.FF.A.3 and 6.FF.A.4

Combining Like Terms

Equivalent Forms of Expressions 1

Back To

KHAN
Academy

Practice
Homepage

HOME

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6.FF.B.6

**Using Inequalities to Describe
Real-world Contexts**

**Testing Solutions of Equations and
Inequalities**

**Testing Solutions of Equations and
Inequalities; Word Problems**

**Constructing Linear Equations
Word Problems**

Back To

KHAN
Academy

Practice
Homepage

HOME

Virtual Nerd Video Lesson Homepage

**Read, Write, & Evaluate
Algebraic Expressions**
6.EE.A.2 and 6.EE.A.2a

**Apply Properties of Operations
to Generate Equivalent
Expressions**
6.EE.A.3 and 6.EE.A.4

**Read, Write, & Evaluate
Algebraic Expressions**
6.EE.A.2b

**Understand That Variables
Represent Unknown Numbers &
Use Variables to Solve Problems**
6.EE.B.6

**Read, Write, & Evaluate
Algebraic Expressions**
6.EE.A.2c

HOME

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6.FF.A.2 and 6.FF.A.2a

How Do You Translate Phrases into Numerical Expressions?

How Do You Determine Which Operations to Use in a Word Problem?

What Are Some Words You Can Use to Write Word Problems?

What Are Numerical and Algebraic Expressions?

How Do You Turn a Simple Verbal Phrase into an Algebraic Expression?

[Back To](#)

[Virtual Nerd](#)

[Homepage](#)

[HOME](#)

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6.F.F.A.2b

What's a Coefficient?

What is a Factor?

What's a Term?

Back To

Virtual Nerd

Homepage

HOME

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6.FF.A.2c

[How Do You Evaluate an Algebraic Expression by Plugging In Values?](#)

[How Do You Simplify an Expression Using the Order of Operations?](#)

[How Do You Complete a Table by Plugging in Values?](#)

[How Do You Evaluate an Algebraic Expression?](#)

[How Do You Simplify an Expression Using the Order of Operations with Exponents?](#)

[What is the Substitution Property of Equality?](#)

[What is a Variable?](#)

[How Do You Evaluate an Algebraic Expression with One Variable?](#)

[How Do You Convert a Temperature from Celsius to Fahrenheit?](#)

[What's the Order of Operations?](#)

[How Do You Evaluate an Algebraic Expression with Two Variables?](#)

[How Do You Convert a Temperature from Fahrenheit to Celsius?](#)

[How Do You Evaluate an Expression with Exponents?](#)

[Back To](#)

[Virtual Nerd](#)

[Homepage](#)

[HOME](#)

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6.FF.A.3 and 6.FF.A.4

[How Do You Use the Distributive Property to Simplify an Expression?](#)

[How Do You Distribute a Number into an Addition Problem to Solve?](#)

[How Do You Add Like Terms?](#)

[How Do You Use the Distributive Property to Rewrite and Solve an Addition Problem?](#)

[How Can You Distribute Numbers When You're Adding and Multiplying?](#)

[How Do You Subtract Like Terms?](#)

[What is the Distributive Property?](#)

[How Do You Add Variables that Are the Same?](#)

[How Do You Factor a Greatest Common Factor Out of an Expression?](#)

[Back To](#)

[Virtual Nerd](#)

[Homepage](#)

[HOME](#)

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6.FF.B.6

How Do You Write a Rule for a Table?

How Do You Write an Equation from a Word Problem?

How Do You Write and Solve an Equation from a Word Problem?

What Are Numerical and Algebraic Expressions?

[Back To](#)

[Virtual Nerd](#)

[Homepage](#)

[HOME](#)

IXL Practice

Write Variable Expressions to Represent Word Problems

Evaluate Variable Expressions Involving Decimals, Fractions, and Mixed Numbers

Properties of Multiplication

Complete a Function Table

Evaluate Multi-variable Expressions

Simplify Variable Expressions Using Properties

Write Linear Function Tables

Distributive Property

Identify terms, Coefficients, and Monomials

Convert Between Celsius and Fahrenheit

Add and Subtract Like Terms

Evaluate Variable Expressions with Whole Numbers

Properties of Addition

Solve Word Problems Involving Two-variable Equations

HOME

Interactive Games: Exponents

Exponents Jeopardy Game

Exploring Laws of Exponents

Patterning the Powers of 10

Baseball Exponents

HOME

Interactive Games: Expressions & Equations

**Math Basketball:
Properties of
Multiplication**

**Otter Rush: Exponent
Expressions**

**Evaluating Algebraic
Expressions
Basketball Game**

**Evaluate Expressions
Game**

**Swimming Otters:
Variable Expressions**

Postman Phil

Solve for x

Evaluate Expressions

Math Attack 3

**Number Balls: Solve
for x**

**Algebraic Expressions
Game**

**Math Tank Run
Algebra**

HOME

Interactive Games: Facts & Factors

**Factor Feeder: practice
factors**

**Skater Math: Practice Facts
Using All Operations**

**Factor; Millionaire Game
(continue practicing factors)**

Math Attack 3

HOME

Interactive Games: Like Terms

[**Like Terms; Quartet**](#)

[**Matching Like Terms**](#)

[**Like Terms; Invaders**](#)

[HOME](#)

Interactive Games: Order of Operations

The Order of Operation; Millionaire Game

Exploring Order of Operations

Call of Hierarchy: Order of Black Operations

What's My Value?

HOME

Songs

[**The Distributive Property Song**](#)

[**Exponents Rap**](#)

[**Mr. B's Property Rap**](#)

[**Exponential Style – Gangnam
Style Math Remix**](#)

[**Colin Dodd's – Powers \(Math
Song\)**](#)

[**BEST simplifying Algebraic
Expressions – Fun Learning
Math!**](#)

[**Basic Number Properties Rap**](#)

[**No Equal Sign**](#)

HOME

A Little Math Humor...

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"Just a darn minute — yesterday you said that X equals two!"

$$x + 30$$



School Cartoon #6446

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WWW.ANDERTOONS.COM



"You knew X was 7 the whole time and you never said anything?!"

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"No, I can't explain my D in math. That class teaches us about numbers, not letters!"



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Algebraic Expressions Cartoons

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Winter Landscape

https://www.google.com/search?site=&tbm=isch&source=hp&biw=1366&bih=643&q=winter&oq=winter&gs_l=img.1.0.0l10.1539.2343.0.4860.6.4.0.2.2.0.95.161.4.4.0.msedr...0...1ac.1.60.img..0.6.171.09rbQTSwcnU#q=winter&tbm=isch&tbs=sur:f&facrc=_&imgdii=l4u_Avrg4vYxnM%3A%3BnzIWR3JV78UV5M%3Bl4u_Avrg4vYxnM%3A&imgrc=l4u_Avrg4vYxnM%253A%3BRd2F7wsFICCrM%3Bhttp%253A%252F%252Fupload.wikimedia.org%252Fwikipedia%252Fcommons%252Fa%252Fa2%252FbadHogastein-Winter.jpg%3Bhttp%253A%252F%252Fcommons.wikimedia.org%252Fwiki%252Ffile%253ABadHogastein-Winter.jpg%3B2272%3B1704

Exponents Cartoons

https://www.google.com/search?site=&tbm=isch&source=hp&biw=1366&bih=643&q=cartoons+about+algebraic+expressions&oq=cartoons+about+algebraic+expressions&gs_l=img.3...4689.14975.0.15213.36.12.0.24.24.0.73.71.12.12.0.msedr...0...1ac.1.60.img..14.22.769.7lrJ6KsT1Go#tmb=isch&q=cartoons+about+exponents&imgdii=_

HOME