

7.EE.1 & 7.EE.3: Expressions & Equations

7.EE.1 Apply properties of operations to generate equivalent expressions using distributive property with integers and/or rational numbers

Learning Target (conceptual understanding)
What do students need to know

Procedural Knowledge and Skills
What do students need to do

Simplify Expressions

- terms
- like terms
- rational numbers
- operation rules with rational numbers
- distributive property

Simplify Expressions

- distribute
- multiplying rational numbers
- addition and subtraction with rational numbers
- identify like terms
- combine like terms

Academic Vocabulary

Rational Number
Distribute

Term
Equivalent

Like Term
Combine

Expression

Equation

Essential Learning Standards: In Student Friendly Language

- I can identify terms and combine like terms
- I can simplify expressions
- I can add and subtract expressions
- I can write an expression from a word problem

Proficiency Level of Understanding

Level 1: below

Identify like terms in an expression

Level 2: approaching

Apply properties of operations to generate equivalent expressions with integers

Level 3: proficient

Apply properties of operations to generate equivalent expressions using distributive property with integers and/or rational numbers

Level 4: advanced

write and apply properties of operations to generate equivalent expressions from a word problem

7.EE.1 & 7.EE.3: Expressions & Equations

7.EE.3 Solve multi-step equations with rational numbers and/or integers

Learning Target (conceptual understanding) What do students need to know	Procedural Knowledge and Skills What do students need to do
Solving & Writing Equations <ul style="list-style-type: none"> • combine like terms • distributive property • inverse operations • rules of operations with rational numbers 	Solving & Writing Equations <ul style="list-style-type: none"> • write simple equations • use inverse operations to solve • distribute • combine and simplify like terms • write equations from word problems

Academic Vocabulary

Term	Like Term	Expression	Equation	Inverse
Distribute	Operations in written form (sum, quotient, product, difference)			Combine

Essential Learning Standards: In Student Friendly Language

- I can write a simple equation
- I can solve equations with addition and subtraction
- I can solve equations with multiplication and division
- I can solve one-step equations with any operation
- I can solve multi or two-step equations
- I can write and solve equations

Proficiency Level of Understanding

Level 1: below	Solve one-step equations with whole numbers and/or integers
Level 2: approaching	Solve one-step equations with rational numbers and/or integers
Level 3: proficient	Solve multi-step equations with rational numbers and/or integers
Level 4: advanced	Write and solve an equation in real-world context