5th Grade

ADDITION AND SUBTRACTION OF FRACTIONS

Created By:

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Whole Class Lessons and Guided Math Groups
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Intervention and Enrichment
Exit Tickets

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I SEE YOU~

- struggling each week to write lesson plans that meet the rigor of the TEKS.
- searching endlessly for resources that will help kids learn math while being challenged and engaged.
- staying late everyday after school working on plans and creating everything from scratch.

You are exhausted from working with students all day, and still have to prep, write and create.

I SEE YOU~

SACRIFICING your time with your family and friends

to ensure success for ALL of OUR Children.

Addition And Subtraction Of Fractions

Name	1	2	3	4	5

Name _____

LT	Statement	1	2	3	4	Evidence
1	I can estimate to determine solutions to mathematical and real-world problems involving addition, subtraction					
2	I can represent and solve addition and subtraction of fractions with unequal denominators referring to the same whole using objects and pictorial models.					
3	I can represent and solve addition and subtraction of fractions with unequal denominators referring to the same whole using properties of operations.					
4	I can add and subtract positive rational numbers fluently.					
5	I can simplify numerical expressions that do not involve exponents, including up to two levels of grouping.					

1	2	3	4
I have no idea how to do this.	I can do this with some help.	I can do this by myself	I can teach someone to do this.

Learning Target	What do we want students to learn?	How will we know if they learned it?	What will we do if they don't?	What will we do if they already know it?
1 5.3A	Estimate to determine solutions to mathematical and real-world problems involving addition, subtraction	Front-end method Compensation Rounding ❑ Round numbers to a common place then compute. ❑ Keep one value the same and round the other value to estimate solutions. Compatible numbers	❑ Understand how to use rounding or compatible numbers to estimate a solution ❑ Understand how to determine the reasonableness of an estimation ❑ Determine a reasonable estimate of the solution to a problem involving addition or subtraction and represent the solution using verbal description.	❑ Estimate solutions with whole numbers, fractions, and decimals.
2 5.3H	Represent and solve addition and subtraction of fractions with unequal denominators referring to the same whole using objects and pictorial models.	❑ Fractions (positive proper, improper, or mixed numbers) ❑ Concrete objects and pictorial models ❑ Fraction strips and other strip models ❑ Number lines ❑ Area models (rectangular, circular, pattern blocks, etc.) ❑ Sets of objects ❑ Clocks ❑ Ratio tables	❑ Understand how to interpret a fraction represented in a model ❑ Understand how to represent an equivalent fraction with a different denominator ❑ Represent a problem involving addition or subtraction of fractions using an expression. ❑ Understand how to add fractions with unequal denominators represented using models by converting the fraction models to a common denominator	❑ Develop fluency with fraction and decimal addition and subtraction.

Learning Target	What do we want students to learn?	How will we know if they learned it?	What will we do if they don't?	What will we do if they already know it?
3 5.3H	Represent and solve addition and subtraction of fractions with unequal denominators referring to the same whole using properties of operations.	❑ Properties of operations ❑ Commutative property of addition – if the order of the addends are changed, the sum will remain the same a + b = c; therefore, b + a = c ❑ Associative property of addition – if three or more addends are added, they can be grouped in any order, and the sum will remain the same. a + b + c = (a + b) + c = a + (b + c)	❑ Fractions are relationships, and the size or the amount of the whole matters. ❑ Common whole is needed when adding or subtracting fractions ❑ Equivalent fractions to determine common denominator prior to adding or subtracting fractions ❑ Least common denominator (LCD) – the least common multiple of the denominators of two or more fractions ❑ Equivalent fractions to simplify solutions	❑ Develop fluency with fraction and decimal addition and subtraction.
4 5.3K	Add and subtract positive rational numbers fluently.	❑ Sums of fractions with equal and unequal denominators ❑ Differences of fractions with equal and unequal denominators	❑ Understand how to add and subtract fractions with unequal denominators by converting the fractions to a common denominator ❑ Solve a problem involving addition of fractions ❑ Recognize addition and subtraction of fractions presented in a real-world problem situation	❑ Add, subtract, multiply, and divide rational numbers fluently.

Learning Target	What do we want students to learn?	How will we know if they learned it?	What will we do if they don't?	What will we do if they already know it?
5 5.4F	Simplify numerical expressions that do not involve exponents, including up to two levels of grouping.	❑ Fractions (positive proper, improper, or mixed numbers with equal or unequal denominators) ❑ Numerical expressions without exponents Grouping symbols ❑ Parentheses ( ) ❑ Brackets [ ] ❑ Up to two levels of grouping ❑ Grouping symbols within grouping symbols Order of operations ❑ Parentheses/brackets: simplify expressions inside parentheses or brackets in order from left to right ❑ Addition/subtraction: simplify expressions involving addition and/or subtraction in order from left to right	❑ Understand the order of operations ❑ Understand that parentheses without an operation symbol indicate multiplication; a(b) means a multiplied by b.	Simplify numerical expressions that may include a division bar instead of the division symbol.

Day 1: 5.3A	Day 2: 5.3H	Day 3: 5.3H	Day 4: 5.3H	Day 5: 5.3H
Anticipation Guide LT 1 Estimation	Huddle LT 2 Fraction Strips Number Line	Mini Lesson LT 2 Fraction Circles Number Line	Mini Lesson LT 2 Area Models Number Line	Mini Lesson LT 2 Area Models Number Line
Guided Math	Guided Math	Guided Math	Guided Math	Guided Math
Reteach Unit 5	LT 1	LT 2	LT 2	LT 2

Day 6: 5.3H	Day 7: 5.3H	Day 8: 5.3K	Day 9: 5.3K	Day 10: 5.3K
Mini Lesson LT 3 Regrouping Models	Mini Lesson LT 3 Regrouping Models	Huddle LT 4 Addition & Subtraction	Game LT 4 Addition & Subtraction	Independent Practice LT 4
Guided Math	Guided Math	Guided Math	Guided Math	Guided Math
LT 2	LT 3	LT 4	LT 4	LT 4

Day 11: 5.4F	Day 12: 5.4F	Day 13: ALL		
Mini Lesson LT 5 Order of Operations	Independent Practice LT 5	Independent Practice LT 1-5 Review		
Guided Math	Guided Math	Guided Math		
LT 5	LT 5	LT 1-5		