Fraction Operations and Integer Concepts

Fraction	Operations and Integer Concepts
Lesson	Resources
I	NS.1, 6.NS.4, 6.NS.5, 6.NS.6, 6.NS.7, 6.NS.8 2c, 6.2e, 6.3a, 6.3c, 6.4g, 6.11
Unit Prep (pgs. 7 – 13)	 Weekly Warm Up Sheet Exit Tickets Lesson Plan Template
(1) Equivalent Fractions and Simplest Form (pgs. 14 – 28)	 Four Warm Ups LCM and GCF Notes (2 pages) LCM and GCF Practice Worksheet Equivalent Fractions and Simplest Form Notes Equivalent Fractions Guided Notes Equivalent Fractions and Simplest Form Practice Worksheet (2) Equivalent Fractions Flip Book Equivalent Fractions Matching Activity Four Exit Tickets
(2) Adding and Subtracting Fractions and Mixed Numbers (pgs. 29 – 40)	 {Review Lesson} Four Warm Ups Adding & Subtracting Fractions and Mixed Numbers Notes Adding Fractions and Mixed Numbers Practice Subtracting Fractions and Mixed Numbers Practice Adding and Subtracting Fractions Steps Organizer. Adding and Subtracting Mixed Numbers Steps Organizer. Adding and Subtracting Fractions and Mixed Numbers Word Problems Practice Adding and Subtracting Mixed Numbers Partner Practice Four Exit Tickets
(3) Multiplying Fractions and Mixed Numbers (pgs. 41 – 50)	 {Review Lesson} Three Warm Ups Multiplying Fractions and Mixed Numbers Notes Multiplying Fractions and Mixed Numbers Steps Organizer Multiplying Fractions and Mixed Numbers Practice Multiplying Fractions and Mixed Numbers Word Problems Practice Multiplying Fractions and Mixed Numbers Puzzle Three Exit Tickets
(4) Dividing Fractions and Mixed Numbers by Fractions (pgs. 51 – 69)	 Four Warm Ups Dividing Fractions and Mixed Numbers Notes (2 pages) Dividing Fractions and Mixed Numbers Practice Dividing Fractions Word Problems Practice Multiplying and Dividing Fractions and Mixed Numbers Steps Organizer Fraction Operations Mini Book Dividing Fractions Pairs Check Operations with Fractions and Mixed Numbers Quiz Four Exit Tickets

Fraction Operations and Integer Concepts

Lesson	Resources
(5) Understanding Integers (pgs. 70 – 78)	 Two Warm Ups Understanding Integers Notes Understanding Integers Fold and Flip Notes Understanding Integers Practice Integers on a Number Line Practice Comparing Integers Practice Two Exit Tickets
(6) Absolute Value (pgs. 79 – 90)	 Two Warm Ups Absolute Value Notes Absolute Value Fold and Flip Notes Absolute Value Practice Number System Activity – War Card Game Two Exit Tickets
(7) Plotting in a coordinate plane (pgs. 91 – 101)	 Two Warm Ups Coordinate Planes Notes (2 pages) Coordinate Planes Fold and Flip Notes Coordinate Planes Practice Coordinate Planes Real World Practice Two Exit Tickets
End of Unit (pgs. 102 – 106)	Study Guide Unit Exam

6TH GRADE CURRICULUM PACING CALENDAR

Unit 2: Fraction Operations and Ir

Day I Topic: Unit Prep Topic: Equivalent

Resources:

- Unit 1 Review Activity {teacher choice – Suggested Activity: Decimal Operations Spin to Solve Game}
- Unit 2 Pre Assessment

Topic: Equivalent Fractions and Simplest Form

Resources:

- L1 Warm Up 1
- Equivalent Fractions and Simplest Form Notes (2 pages)
- Equivalent Fractions and Simplest Form Practice Worksheet 1
- Exit Ticket 1

Day 4

LESSON I Equivalent Fractions and Simplest Form

Topic: Equivalent Fractions and Simplest Form

Resources:

- L1 Warm Up 3
 Equivalent Fractions and Simplest Form Practice
- Worksheet 2
 Equivalent Fractions
 Addening Activity
- Matching Activity
 Exit Ticket 3

Day 5

Topic: Adding and Subtracting Fractions and Mixed Numbers

Resources:

- L2 Warm Up 1
- Adding and Subtracting Fractions and Mixed Numbers Notes
- Adding and Subtracting Fraction Steps Organizer
- Exit Ticket

6TH GRADE CURRICULUM PACING CALENDAR

Unit 2: Fraction Operations and Integer Concepts

Day IO

Topic: Multiplying Fractions and Mixed Numbers

Resources:

- · L3 Warm Up 2
- Multiplying Fractions and Mixed Numbers Practice
- {insert choice activity Suggested Activity: Multiplying Fractions and Mixed Numbers Coloring Worksheet}

Topic: Dividing Fractions and

Mixed Numbers

Fraction Operations Mini

Dividing Fractions Practice

Exit Ticket 2

Resources:

Book

L4 Warm Up 2

Day 13

Day II

Topic: Multiplying Fractions and Mixed Numbers

Resources:

- · L3 Warm Up 3
- Multiplying Fractions and Mixed Numbers Word Problems Practice
- Multiplying Fractions and Mixed Numbers Puzzle Practice
- Exit Ticket 3

Day 14

Day 12

Topic: Dividing Fractions and Mixed Numbers

Resources:

- L4 Warm Up 1
- Dividing Fractions and Mixed Numbers Notes (2 pages)
- Multiplying and Dividing Fractions and Mixed Numbers Steps Organizer
- Numbers Steps Organizer
 Exit Ticket 1

| -------

Day 15

Mixed Numbers Mixed Numbers

Resources:
• L4 Warm Up 3

Topic: Dividing Fractions and

- Dividing Fractions Word Problems
- Dividing Fractions Pairs Check

Exit Ticket 3

Topic: Dividing Fractions and

- Resources:
- L4 Warm Up 4
 Operations with Fractions and Mixed Numbers Quiz(2 pages)
- Exit Ticket 4

6TH GRADE CURRICULUM TALKING POINTS

Unit 2 : Fraction Operations and Integer Concepts

Tips and Talking Poi

Ask students to compare and contrast the fract

they've made their observations share with ther fractions and 1/2 is the simplified version of 8/16

- Equivalent fractions can be found by multiplying fractions in simplest form occurs when the nume are divided by the greatest common factor.
- Common Mistakes Students may forget that be denominator need to be multiplied/divided by writing equivalent fractions and simplifying.

· Some teachers want students to re-write mixed

fractions before adding. This is up to you (and y

make things easier for students. Even if you do the

idea of adding and subtracting the whole numl

must be able to understand the idea of borrowi

dents will often forget to vers with a common dedenominators too.

6TH GRADE CURRICULUM TALKING POINTS

Unit 2 : Fraction Operations and Integer Concepts

Tips and Talking Points

LESSON 4 Dividing Fractions and Mixed Numbers

- Review dividing whole numbers that have fractional quotients (8 divided by 6) and dividing fractions and whole numbers.
- Use models to help students visualize breaking a fraction into smaller pieces.
- Common Misunderstandings Students believe that division makes things smaller.
 With fractions, division could product a quotient larger than the dividend.
- Students may forget to flip the second fraction before multiplying.

LESSON 5 Understanding Integers

- Enforce the differences between rational numbers and integers. Students tend to think they are the same. Discuss the similarities and differences between the two.
- Common Misunderstandings When using integers to describe real world situations
 most misunderstandings come from flipping up/down, spend/earn, etc. Encourage
 students to really think about what is happening in the situation.

ESSON 6

- Don't just tell students that "absolute value is always a positive number drive home
 the idea that absolute value represents the distance from zero. Discuss how it is not
 possible to be a "negative" distance from anything. Set up an object in the room and
 have two students stand 5 steps on either side of the object. Have students make
 observations about their distance.
- Common Misconceptions Students may confuse the terms "opposite" and

BEYOND THE PLYO

Teacher Resources

Plot

they see it – label (x+ or x- and y+ or y-) until they have it! Have them label the auadrants each time as well.

Name	WA	RM UP #1		
Date				\ /ADMIID
Lesson I : Equivalent Frac Skill : Finding the Least C		Date		WARM UP #
Find the least common denominator.	Find the least common deno	Les	sson 5 : Unders	standing Integers
$\frac{5}{6}, \frac{1}{3}$	2,3	S	kill : Locating Rational N	umbers on a Number Line
6 3	5,4	Identify the lo line.	cation of 4.5 on the number	2. Identify the location of 8 on the number line.
Find the least common denominator.	4. Find the least common deno	4 1 2 2	4 5 6 7 9 9 10	+ + + + + + + + + + + + + + + + + + +
$\frac{1}{5},\frac{1}{2}$	$\frac{1}{10}$, $\frac{2}{3}$			
5 2	10 3	Identify the lo line.	cation of 0.5 on the number	4. Identify the location of -0.5 on the number line.
5. Find the least common denominator.	6. Find the least common dend 5 3	1 2 3	4 5 6 7 8 9 10	******************
2.7	8,2	5. Identify the lo	cation of -1.5 on the number	6. Identify the location of -4 on the number line.
©2016/2018 Lindsay Perro. All rights reserved.	www.beyondtheworksh	-10 -9 -8 -	7 -6 -5 -4 -3 -2 -1	-10 -9 -8 -7 -6 -5 -4 -3 -2 -1
Name	WA	(2001/100	18 Lindsay Perro, All rights reserved.	www.bevondtheworksheet.com
Date	Hiomo and Cinemiae	100 macentane	to unusury retro. Al rights reserved.	The state of the s
Lesson I : Equivalent Frac		Date		WARM UP #2
Skill: Equivale 1. Are the two fraction equivalent?	Are the two fractions equiva	Les	sson 5 : Unders	standing Integers
$\frac{1}{6}$ and $\frac{2}{12}$	$\frac{20}{10}$ and $\frac{1}{2}$		Skill : Integers in	n the Real World
6 ***** 12	10 2	Write an integ snowfall.	ger to represent a 14 inch	Write an integer to represent writing a check for \$42.50.
3 Are the two fraction equivalent?			1	
Name Date	WA	\RM UP #1		
Lesson 4 : Dividing Frac			er to represent climbing a untain.	Write an integer to represent a treasure buried 8.5 feet below the surface.
Find the sum. Simplify your answer if necessary.	Find the sum. Simplify your of necessary.	Name		WARM UP #
$4\frac{1}{2}+6\frac{1}{5}$	$3\frac{4}{5} + 8\frac{1}{3}$			
			-	ng Fractions & Mixed Numbers
			cting Fractions and Mixe rence. Simplify your answer if	d Numbers with Unlike Denominators 2. Find the difference. Simplify your answer if
3. Find the difference. Simplify your answer if	4. Find the difference. Simplify	necessary.		necessary.
necessary. $7\frac{7}{10} - 6\frac{4}{5}$	necessary.		$\frac{7}{8} - \frac{1}{3}$	$\frac{1}{5} - \frac{1}{2}$
10 5	12 6	3 Find the differ	rence. Simplify your answer if	Find the difference. Simplify your answer if
		necessary.		necessary.
©2016/2018 Lindsay Perro. All rights reserved.	www.beyondtheworks		$12\frac{1}{5} - 6\frac{11}{12}$	$2\frac{3}{4} - 1\frac{1}{2}$
Name	WA	Find the differencessary.	rence. Simplify your answer if	Find the difference. Simplify your answer if necessary.
Lesson 4 : Dividing Frac	tions & Mixed N		$8\frac{5}{6} - 3\frac{1}{3}$	$3\frac{3}{4}-1\frac{1}{5}$
_	ons and Mixed Numbers			4 0
Simplify your answer if necessary.	Simplify your answer if neces		18 Lindsay Perro. All rights reserved.	www.beyondtheworksheet.com
$2\frac{1}{3} \cdot 1\frac{4}{5}$	$6\frac{2}{5} \cdot \frac{1}{4}$	Name Date		WARM UP #
		Lesson 2:	Adding & Subtractir	ng Fractions & Mixed Numbers
		Skill	: Adding & Subtracting F	ractions and Mixed Numbers
	Simplify your answer if neces	Find the sum. necessary.	Simplify your answer if	Find the difference. Simplify your answer if necessary.
/n 0	. , ,		$2\frac{1}{3} + 4\frac{5}{12}$	$\frac{11}{12} - \frac{4}{5}$
Niladesam	$\frac{11}{15} \cdot \frac{5}{6}$			
000 MOS 04		3. Find the differ	rence. Simplify your answer if	4. Find the sum, Simplify your answer if
BEYOND THE MASS				m Uns
WORKSHEET JOOO				

3 4

4 5

Name Date	EXIT T	ICKET (3)				
Equivalent Fractions	s and Simples	Name		EXI	IT TICKET 3	
Are the fractions equivalent?	1	ıbtractina Fra	ictions & Mixe	ed Numbers		
$\frac{8}{40}$ and $\frac{1}{5}$	$\frac{12}{36}$ and 3	Find the sum. Simplify necessary.		Find the sum. Simplify necessary.		
Write a fraction equivalent to the one given.	Write a fraction equivalent	1+45	5	41/5	+ 1/4	
2/16	2					
16	3					
5. Re-write the fraction in simplest form.	6. Re-write the fraction in sim	3. Find the difference. S	Simplify your answer if	Find the difference. S necessary.	Simplify your answer if	
22 33	40 55	$4\frac{1}{2}-3$	17	,	$-2\frac{2}{5}$	
©2016/2018 Lindsay Perro, All rights reserved.	www.beyondthewor					
Name	EXIT					
Date			Perro. All rights reserved.		ndtheworksheet.com	
Equivalent Fractions	-	_ Date		EXI	TT TICKET (4	
1. Are the fractions equivalent? $\frac{8}{40} \text{ and } \frac{1}{5}$	Are the fractions equivalent 12	Adding & Su	ıbtracting Fro	ictions & Mixe	ed Numbers	
$\frac{1}{40}$ and $\frac{1}{5}$	$\frac{12}{36}$ and 3	Find the sum. Simplify necessary.	your answer if	Find the sum. Simplify necessary.	y your answer if	
Write a fraction equivalent to the one given.	Write a fraction equivalent	$5\frac{1}{3} + \frac{3}{4}$	34	3 3/5	+1/2	
Name	FXTT 1	TICKET 1				
Date		_				
Multiplying Fraction			Simplify your answer if	Find the difference. S necessary.	Simplify your answer if	
1. Simplify your answer if necessary. $\frac{3}{8} \cdot \frac{1}{2}$	2. Simplify your answer if nec $\frac{7}{10} \cdot \frac{6}{5}$	essary. $\frac{3}{2} - 1\frac{1}{2}$		4 - 8		
8 2	10 5	Name Date		——— EXI	T TICKET (1	
		50 C/O S/(H)	Coordi	nate Pla	ine	
3. Simplify your answer if necessary.	4. Simplify your answer if nec	Identify the coordinates of the		Identify the coordinates of the		
$\frac{2}{7} \cdot \frac{5}{9}$	$\frac{3}{4} \cdot \frac{4}{5}$	point.		point.		
		I	4 4 4 4 5 1 1 1 1 4 5		4 4 4 4 4 1 1 4 4 4 5	
			3		3	
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@2016/2018 Lindsoy Perro. All rights reserved.	www.beyondthewo	Identify the coordinates of the		Identify the coordinates of the		
©2016/2018 Lindsay Perro, All rights reserved. Name Date	www.beyondthewo					
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Name	EXIT 1 2. Simplify your answer if near 1.	Coordinates of the point. Coordinates of the point.	Coordi	www.beyon EXI nate Pic 2. Plot a point at (*3, *3).	T TICKET 2 Ine	

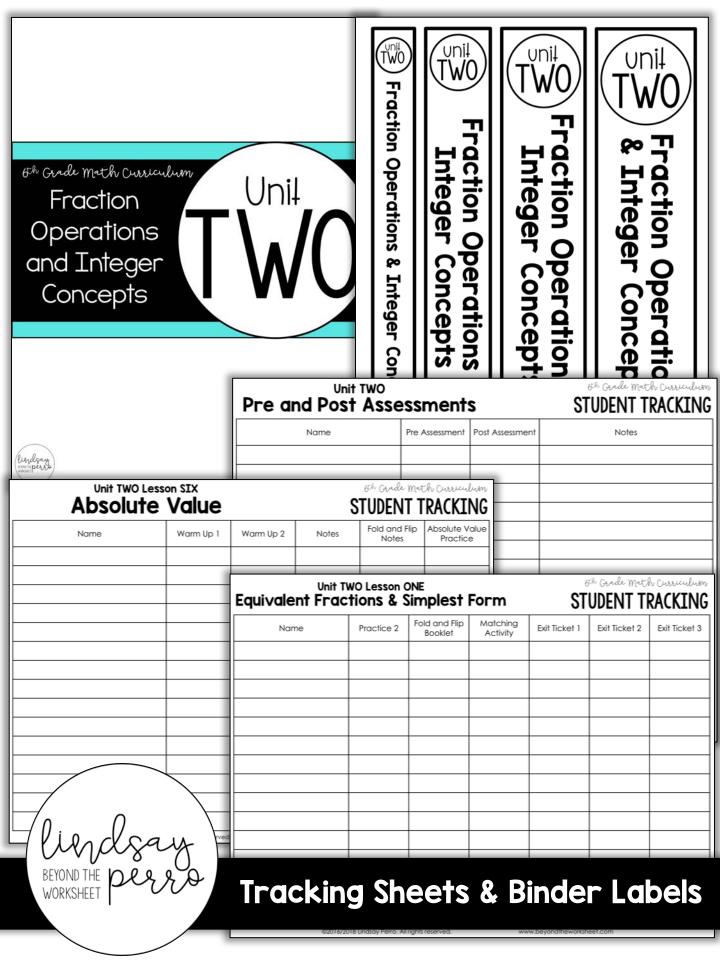
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2. Beginning at the center of the coordinate plane, called the						e, you will move _	If it is
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Name					& Simi	ent Fractions plest Form			
Date :	tions : Sha				given fractions. Determin	Name	1		Subtracting Fractions & Mixed Numbers PRACTICE
1.	3 4 equa	and $\frac{10}{12}$	ual	5.	$\frac{1}{2} \text{ and } \frac{4}{8}$ equal or not equ	1) $\frac{2}{5} - \frac{3}{10}$	ach difference. Show your work and	d write your answer in : 2) $6\frac{4}{5} - 1\frac{1}{4}$	simplest form.
2.)(9	6.		3) $8\frac{2}{3} - 3\frac{4}{5}$		4) $\frac{10}{3} - 1\frac{3}{4}$	
Name_					Mixed N	Subtracting Numbers			
The n mixed the lo	umber ead I numbers Irgest mixe	ch partner I will be add d number i ed numbers	ands on will led or subtro n the table	pinner once. I identify which acted. Record first! or differences in	PAIRS P	RACTICE		6) $5\frac{2}{4} - 2\frac{7}{10}$	
	l l	2	3	4	0	Name_			Coordinate Planes
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Name_ Date _ 1. Who		olute value	of 22?	2. What		RACTICE	rdinates of each landmark on the grid represents a street, Expla		
3. Who	at is the abs	olute value	of -81/2?	4. What	is the absolute value of	88			
5. Who	at is the abs	olute value	of 2.80?	6. What	is the absolute value of	-44?	ou would give someone directio	ins from the Element	ary School to the Movie Theater.
7. -5 9.	EYOND WORKSH) Sa Ur)	8. 1.75			is being built three units left of th hool. What will the coordinates b	oe for the high school	

Name Date	PRE-ASSES	SMENT		
Fraction Operations Solve each problem. Show you	and Integer Co	Name		Operations with Fractions & Mixed Numbers OLIT7
1) Write your answer in simplest form. $3\frac{5}{6} + 2\frac{9}{10}$	2) Write your answer in simplest $2\frac{1}{3} - \frac{12}{10}$	1. Write three fractions that to $\frac{2}{3}$.	are equivalent	2. Write three fractions that are equivalent to $\frac{1}{4}$.
3) Write your answer in simplest form. $5\frac{1}{2} + \frac{3}{5}$	4) Write your answer in simplest $2\frac{3}{5} \cdot 1\frac{1}{2}$	3. Write $\frac{10}{12}$ in simplest form.		4. Write $\frac{15}{20}$ in simplest form.
Name	Fraction O	perations &		3
Date	Integer	Concepts mixed no	umber.	6. Re-write $2\frac{3}{5}$ as an improper fraction.
Directions : Show your work whenever possible	e. UNIT	EXAM		
1) Write your answer in simplest form.	2) Write your answer in simplest fo	orm.		
$\frac{8}{10} \cdot 3\frac{2}{3}$	$4\frac{1}{4} + 2\frac{2}{3}$: Read ec		Write all answers as fractions in simplest form. 8. $7\frac{3}{4} - 5\frac{1}{6}$
3) Write your answer in simplest form. $3\frac{1}{2} + 2$	4) Write your answer in simplest for $9\frac{1}{2} - 4\frac{3}{5}$	orm.		
				NS AND INTEGER CONCEPTS UNIT EXAM
5) Write your answer in simplest form. $5\frac{3}{4} - \frac{11}{10}$	6) Write your answer in simplest to $2\frac{4}{5} \cdot \frac{12}{3}$	11) Write two fractions that	are equivalent to $\frac{1}{7}$.	12) Write two fractions that are equivalent to $\frac{10}{3}$.
7) Write your answer in simplest form. $\frac{4}{5} + 2\frac{1}{3}$	8) Write your answer in simplest the $2\frac{9}{10} + 1\frac{1}{3}$	13) What is the absolute vo		What is the absolute value of -3.5? Use the number line to prove your answer.
3 3		IT EXAM		
19) Write an integer to represent a drop of 40 feet.	20) Write an integer to represent v \$30 from the bank.		* * * * * * * * * * * * * * * * * * * *	************
21) Write an integer to represent a descent of 100 meters.	22) Write an integer to represent s the grocery store.	e because	value and opposites the absolute value of of "5 is 5. Is he r why not.	16) Nick has four pieces of licorice that are $2\frac{5}{6}$ inches long each. What is the total length of licorice?
23) Describe a real world scenario for the number -80.	24) Describe a real world scenario number 15.	o for the		10) loop divided ¹⁵ by ³ . He get as appropriate
				18) Jonah divided $\frac{15}{20}$ by $\frac{3}{4}$. He got an answer of $\frac{45}{80} = \frac{9}{16}$. Is he correct? Explain.
lindsay	on the number line. D:E:	rant would	each point be	
BEYOND THE PERSONAL WORKSHEET		A 88	266	ments

-10 -8 -6 -4 -2 2 4 6 8 10



			UNIT	PLAN			
		nd Integer C				WFFKIY \	WARM UP SHEET
Vocab		Objective		to	<u> </u>	W LLIXLI V	WATER OF STREET
Absolute ValEquivalent FrDifference	ractions	 Add and subtract fraction denominators. Interpret and compute of fractions, and solve word involving division of fractifractions. Understand a rational nupoint on the number line 					
IntegerLeast Comm		 Extend number line diag coordinate axes to repre 	Date:				
Denominato		the line and in the plane number coordinates.					
> Product	·	 Understand that positive numbers are used togeth 	{				
➤ Quotient		quantities having opposi values Use positive and negative					
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