NTID

Mrs. Lafferty

8th Grade

Day 1

Adding and Subtracting Positive and Negative Fractions and Decimals

➤ **Estimate each problem to check if the student's answer is reasonable. If not, cross out the answer and write the correct answer. Show your work.**

Problems	Student Answers
1 $1.3 - (-2.5)$	~~-1.2~~ Possible estimate: $1 - (-3) = 1 + 3$ 3.8 $= 4$ $1.3 - (-2.5) = 1.3 + 2.5$ $= 3.8$
2 $-3\frac{1}{6} + 6\frac{2}{3}$	$-3\frac{1}{2}$
3 $-4.2 - (-2.9)$	-1.3
4 $3\frac{1}{5} - 2\frac{1}{2} + 2\frac{3}{5}$	$-3\frac{1}{3}$

Dm 1

Day 1

Adding and Subtracting Positive and Negative Fractions and Decimals *continued*

Problems	Student Answers
5 $5.9 - 7.3 - 10.2$	11.6
6 $-5\frac{5}{6} - \left(-2\frac{1}{3}\right) + 5\frac{1}{6}$	$1\frac{2}{3}$
7 $11.5 - 5.4 - 4.7$	-1.4
8 $-11\frac{1}{8} - 12\frac{1}{4} - \left(-21\frac{1}{2}\right)$	$2\frac{1}{8}$

9 How does estimating an addition or subtraction problem help you know if an answer is reasonable?

Day 2

Multiplying Negative Rational Numbers

➤ **Find the product of the rational numbers. The answers are mixed up at the bottom of the page. Cross out the answers as you complete the problems.**

1. $2 \times -\frac{7}{4}$ _____
2. $-\frac{1}{3} \times -\frac{6}{5}$ _____
3. $\frac{2}{5} \times -\frac{3}{4}$ _____
4. $-2\frac{1}{3} \times \frac{5}{4}$ _____
5. $-\frac{3}{7} \times -1\frac{2}{3}$ _____
6. $-3\frac{5}{7} \times -2\frac{1}{2}$ _____
7. $0.75 \times -\frac{4}{3}$ _____
8. $-0.2 \times -\frac{2}{5}$ _____
9. $-0.35 \times -1\frac{3}{7}$ _____
10. $2.5 \times -3\frac{4}{5}$ _____
11. 0.2×-0.45 _____
12. -0.25×-1.4 _____
13. -2.3×6.8 _____
14. $-3.9 \times 5\frac{5}{9}$ _____
15. $-4.2 \times -6\frac{2}{7}$ _____

Answers

$-21\frac{2}{3}$	-15.64	$-9\frac{1}{2}$	$-3\frac{1}{2}$	$-2\frac{11}{12}$
-1	$-\frac{3}{10}$	-0.09	$\frac{2}{25}$	0.35
$\frac{2}{5}$	$\frac{1}{2}$	$\frac{5}{7}$	$9\frac{2}{7}$	$26\frac{2}{5}$

Dom 3

Day 3

Dividing Negative Rational Numbers

➤ **Find each quotient.**

1. $-5 \div \frac{5}{7}$

2. $-\frac{8}{9} \div \frac{2}{3}$

3. $\frac{3}{10} \div -\frac{6}{7}$

4. $-2\frac{3}{4} \div 11$

5. $-4\frac{2}{7} \div -\frac{15}{16}$

6. $-1\frac{4}{7} \div -3\frac{2}{3}$

7. $-8 \div 6.4$

8. $-\frac{3}{2} \div 0.5$

9. $-3\frac{1}{3} \div 1.2$

10. $9.28 \div -3.2$

11. $0.056 \div -0.004$

12. $-0.28 \div 0.07$

13. Explain the steps you used to solve problem 11.

Dwl 3

Day 4

Writing Rational Numbers as Repeating Decimals

➤ **Write each number as a repeating decimal.**

1. $\frac{1}{9}$

_____

2. $-\frac{2}{11}$

_____

3. $\frac{7}{11}$

_____

4. $\frac{1}{3}$

_____

5. $2\frac{4}{9}$

_____

6. $-\frac{13}{6}$

_____

7. $-1\frac{5}{6}$

_____

8. $\frac{13}{99}$

_____

9. When the denominator of a proper fraction is 99, what do you notice about the repeating digit(s) in its decimal form?

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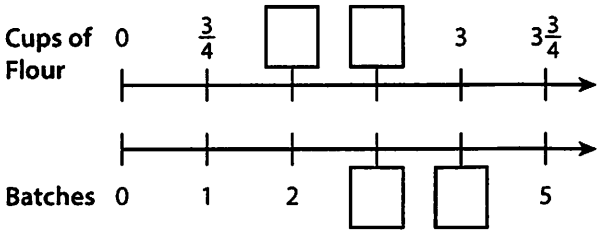
Day 5

Understanding Proportional Relationships

➤ **Read and solve the problems. Show your work.**

1. Josie is making pizza dough. Complete the double number line by filling in the missing values. Then write an equation that models the relationship between the total cups of flour, *c*, and number of batches, *n*. Show your work.



2. Lilli bought each of her friends a pair of colorful socks that cost $5.50. Complete the table to show how much Lilli paid to buy different numbers of socks. Then write an equation that shows the total cost, *c*, for *p* pairs of socks.

Cost		$11.00			
Pairs of socks	1	2	3		

3. Explain how using a table is similar to using a double number line and how it is different.

4. Mrs. Lopez types at a constant rate. The constant of proportionality for the relationship between the number of words she types, *w*, and the number of minutes she types, *m*, is 38. Write an equation to show this relationship.

Doy 5