LESSON MAKER PRO

Rational Number Moves

Compute with positive and negative fractions and decimals.

GRADE 7 · MA.7.NSO.2

MA.7.NSO.2 "Add, subtract, multiply and divide rational numbers."

NAME _____ DATE _____

CHOOSE THE OPERATION

To add or subtract fractions, rewrite them with a common denominator, then combine the numerators. To multiply, multiply straight across and simplify. To divide by a fraction, multiply by its reciprocal, and use sign rules to decide whether the answer is positive or negative.

WORKED EXAMPLE

-13/20 + 7/15

1. The least common denominator is 60.
2. -13/20 = -39/60.
3. 7/15 = 28/60.
4. -39/60 + 28/60 = -11/60.

Answer: -11/60

PRACTICE 6 problems

1 -4/9 + 2/3

ANSWER _____

2 5/6 - (-1/6)

ANSWER _____

3 (-8/9) * (3/4)

ANSWER _____

4 (-5/12) / (1/8)

ANSWER _____

5 -2.5 + 4.75

ANSWER _____

6 -6.4 / (-0.8)

ANSWER _____

APPLY IT Show your work

1 In a video game, Maya starts a round with -12 points. She earns 19.5 points, then loses 8.25 points. What is her final score?

WORK SPACE

ANSWER _____

2 A school club owes $9.60 for supplies. The four club members split the debt equally. What is each member's change in money?

WORK SPACE

ANSWER _____

CHALLENGE One step up

(-4/9 - 1/9) / (-2/3)

WORK SPACE AND ANSWER

ANSWER KEY

Rational Number Moves

GRADE 7 · MA.7.NSO.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	-4/9 + 2/3	**2/9**
2	5/6 - (-1/6)	**1**
3	(-8/9) * (3/4)	**-2/3**
4	(-5/12) / (1/8)	**-10/3**
5	-2.5 + 4.75	**2.25**
6	-6.4 / (-0.8)	**8**

PART 2 · APPLY IT

1. **-0.75 points** Compute -12 + 19.5 - 8.25.
2. **-$2.40** Represent the debt as -9.60 and divide by 4.

CHALLENGE

5/6

Accept equivalent fractions, including improper fractions or mixed numbers when they have the correct value. For money, accept -$2.40 or a statement that each member pays $2.40.