LESSON MAKER PRO

Rational Number Moves

Practice every operation with rational numbers.

GRADE 7 · MA.7.NSO.2.2

MA.7.NSO.2.2 "Add, subtract, multiply and divide rational numbers with procedural fluency."

NAME _____ DATE _____

SIGNS AND OPERATIONS

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

WORKED EXAMPLE

-7/12 + 5/18

1. Use 36 as the common denominator.
2. -7/12 = -21/36 and 5/18 = 10/36.
3. -21/36 + 10/36 = -11/36.

Answer: -11/36

PRACTICE 6 problems

1 -13 + 8

ANSWER _____

2 17 - (-6)

ANSWER _____

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

ANSWER _____

4 (15/16) / (-3/4)

ANSWER _____

5 -2.4 + 6.75

ANSWER _____

6 -3.6 - 1.85

ANSWER _____

APPLY IT Show your work

1 Your game wallet has $24.50. You buy a character skin for $8.75, then receive a $3.20 refund for an item you returned. What is your new balance?

WORK SPACE

ANSWER _____

2 A gaming team earns 3/4 point for each of 8 bonus rounds. Then the team receives a 5/6-point penalty. What is the team's final score change?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Compute: (-2 1/4) / (3/5) + 1.2

WORK SPACE AND ANSWER

ANSWER KEY

Rational Number Moves

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	-13 + 8	**-5**
2	17 - (-6)	**23**
3	(-4/9) x (3/8)	**-1/6**
4	(15/16) / (-3/4)	**-5/4**
5	-2.4 + 6.75	**4.35**
6	-3.6 - 1.85	**-5.45**

PART 2 · APPLY IT

1. **$18.95** Subtract the purchase, then add the refund. 24.50 - 8.75 + 3.20 = 18.95.
2. **5 1/6 points** First find the points earned: 8 x 3/4 = 6. Then subtract the penalty: 6 - 5/6 = 5 1/6.

CHALLENGE

-2 11/20

Accept equivalent fractions and decimals where appropriate. For the challenge, accept -51/20, -2 11/20, or -2.55.