LESSON MAKER PRO

Rational Number Remix

Use fraction and decimal operations in different ways.

GRADE 6 · MA.6.NSO.2

MA.6.NSO.2 "Add, subtract, multiply and divide positive rational numbers."

NAME _____ DATE _____

CHOOSE THE RIGHT MOVE

To add or subtract fractions, rewrite them with a common denominator. To multiply fractions, multiply across and simplify. To divide by a fraction, multiply by its reciprocal, and for decimals, line up decimal points when adding or subtracting.

WORKED EXAMPLE

7/10 + 3/8

1. Find a common denominator: 40.
2. Rewrite: 7/10 = 28/40 and 3/8 = 15/40.
3. Add: 28/40 + 15/40 = 43/40.
4. Write as a mixed number: 1 3/40.

Answer: 1 3/40

PRACTICE 6 problems

1 2/5 + 1/9

ANSWER _____

2 17/18 - 5/6

ANSWER _____

3 6/11 × 2/13

ANSWER _____

4 5/11 ÷ 2/13

ANSWER _____

5 1.6 + 2.35

ANSWER _____

6 4.5 ÷ 0.15

ANSWER _____

APPLY IT Show your work

1 Andre earns $18 for editing a team video. He saves 2/5 of the money for a new headset. How much does he save?

WORK SPACE

ANSWER _____

2 For a robotics showcase, a team has 4 1/2 meters of LED strip. Each display needs 2/9 meter. How many complete displays can get LED strip, and how much strip remains?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A makerspace has 5 1/4 pounds of clay. It uses 1/5 of the clay for keychain charms. The rest is shared equally among 4 student projects. How many pounds of clay does each project get? Show equations.

WORK SPACE AND ANSWER

ANSWER KEY # Rational Number Remix

GRADE 6 · MA.6.NSO.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	2/5 + 1/9	**23/45**
2	17/18 - 5/6	**1/9**
3	6/11 × 2/13	**12/143**
4	5/11 ÷ 2/13	**2 21/22**
5	1.6 + 2.35	**3.95**
6	4.5 ÷ 0.15	**30**

PART 2 · APPLY IT

1. **$7.20** Multiply $18 by 2/5: 18 × 2/5 = 36/5. This is $7.20.
2. **20 complete displays, with 1/18 meter remaining** Divide 4 1/2 by 2/9 to get 20 1/4. Twenty complete displays use 40/9 meters, leaving 1/18 meter.

CHALLENGE

1 1/20 pounds

Accept equivalent fraction forms for fraction answers. For problem 4, accept 65/22 or 2 21/22, and for the challenge, accept 21/20 or 1 1/20.