

Rational Number Remix

Build fluency with signed fractions and decimals.

GRADE 7 • TEKS 7.3.A

7.3.A "add, subtract, multiply, and divide rational numbers fluently; and"

NAME _____

DATE _____

CHOOSE THE RIGHT MOVE

For addition and subtraction, rewrite fractions with a common denominator before combining them. For multiplication, multiply numerators and denominators, then simplify. For division, multiply by the reciprocal, or flipped fraction, and keep track of signs.

WORKED EXAMPLE

$$2/7 + (-5/9)$$

1. Use 63 as the common denominator.
2. Rewrite: $2/7 = 18/63$ and $-5/9 = -35/63$.
3. Add: $18/63 + (-35/63) = -17/63$.

Answer: -17/63

PRACTICE 6 problems

1 $-7/10 + 1/4$

ANSWER _____

2 $13/15 - (-2/9)$

ANSWER _____

3 $(-17/14) \times (7/19)$

ANSWER _____

4 $16/25 \div (-4/15)$

ANSWER _____

5 $-2 \frac{1}{3} + 4 \frac{1}{6}$

ANSWER _____

6 $-3.6 - 2.75$

ANSWER _____

APPLY IT Show your work

- 1** Maya has \$18.75 in her game fund. She buys an add-on for \$6.40 and then earns \$3.25 for helping with chores. How much money is in her game fund now?

WORK SPACE

ANSWER _____

- 2** The media club records a 7 $\frac{1}{2}$ -minute video. The video is split into 3 equal clips. How long is each clip?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Find the value. Show how you simplify before dividing: $(-13/20 + 17/30) \div (-2/15)$

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	$-7/10 + 1/4$	-9/20
2	$13/15 - (-2/9)$	49/45
3	$(-17/14) \times (7/19)$	-17/38
4	$16/25 \div (-4/15)$	-12/5
5	$-2 \frac{1}{3} + 4 \frac{1}{6}$	11/6
6	$-3.6 - 2.75$	-6.35

PART 2 • APPLY IT

1. **\$15.60** Subtract the cost, then add the money earned: $18.75 - 6.40 + 3.25 = 15.60$.
2. **2 1/2 minutes** Divide the total time by the number of equal clips: $7 \frac{1}{2} \div 3 = 2 \frac{1}{2}$.

CHALLENGE

5/8

Accept equivalent simplified fractions, improper fractions, or mixed numbers. For the money problem, accept \$15.60 or \$15.6.