LESSON MAKER PRO

Rational Number Remix

Use fractions, decimals, and percents to solve.

GRADE 7 · 7.NR.1

7.NR.1 "Solve relevant, mathematical problems, including multi-step problems, involving the four operations with rational numbers and quantities in any form (integers, percentages, fractions, and decimal numbers)."

NAME _____ DATE _____

PLAN THE STEPS

Work from parentheses outward, then multiply or divide before adding or subtracting. Change a percent to a decimal or fraction, and rewrite fractions or decimals in a common form when that makes the calculation easier.

WORKED EXAMPLE

Solve: (7/10 + 1.4) ÷ 25%

1. Rewrite 25% as 0.25.
2. Rewrite 7/10 as 0.7.
3. Add: 0.7 + 1.4 = 2.1.
4. Divide: 2.1 ÷ 0.25 = 8.4.

Answer: 8.4

PRACTICE 6 problems

1 Solve: -3.75 + 2.6

ANSWER _____

2 Solve: 4/9 - 5/12

ANSWER _____

3 Solve: (-2/3) * (-15/8)

ANSWER _____

4 Solve: 9.6 ÷ (-1.2)

ANSWER _____

5 Find 35% of 2.4.

ANSWER _____

6 Solve: (1.8 - 4.5) * 1/3

ANSWER _____

APPLY IT Show your work

1 A digital game store credits Sam's account with $18.50. Sam buys an add-on listed at $6.75 that is discounted 20%. How much credit remains?

WORK SPACE

ANSWER _____

2 Nia has $24.00 for art supplies. A sketchbook costs $8.00 and is 15% off. She buys 2 sketchbooks. How much money does Nia have left?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A gaming team wins a $48 prize. The team spends 3/8 of the prize on shirts, then divides the rest equally among 5 players. Each player gives 20% of that share to charity. How much does each player keep?

WORK SPACE AND ANSWER

ANSWER KEY

Rational Number Remix

GRADE 7 · 7.NR.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Solve: -3.75 + 2.6	**-1.15**
2	Solve: 4/9 - 5/12	**1/36**
3	Solve: (-2/3) * (-15/8)	**5/4**
4	Solve: 9.6 ÷ (-1.2)	**-8**
5	Find 35% of 2.4.	**0.84**
6	Solve: (1.8 - 4.5) * 1/3	**-0.9**

PART 2 · APPLY IT

1. **$13.10** $6.75 * 0.80 = $5.40 after the discount. Then $18.50 - $5.40 = $13.10.
2. **$10.40** Each sketchbook costs $8.00 * 0.85 = $6.80. Two cost $13.60, so $24.00 - $13.60 = $10.40.

CHALLENGE

$4.80

Accept equivalent forms, such as 5/4 or 1 1/4. For money answers, accept an equivalent decimal amount with or without a trailing zero.