

Number Mix Mission

Use fractions, decimals, and whole numbers to solve each task.

GRADE 6 • 6.NR.2

6.NR.2 "Apply operations with whole numbers, fractions and decimals within relevant applications."

NAME _____

DATE _____

CHOOSE THE RIGHT STEPS

When adding or subtracting fractions, first rename them with a common denominator. When adding or subtracting decimals, line up the decimal points. Use parentheses first, then multiplication or division, then addition or subtraction.

WORKED EXAMPLE

Find $5/6 + 3/8$.

1. Find a common denominator: 6 and 8 both divide into 24.
2. Rewrite: $5/6 = 20/24$ and $3/8 = 9/24$.
3. Add: $20/24 + 9/24 = 29/24$.
4. Write as a mixed number: $29/24 = 1 \frac{5}{24}$.

Answer: 1 5/24

PRACTICE 6 problems

1 $7/10 + 4/9 = ?$

ANSWER _____

2 $11/12 - 2/7 = ?$

ANSWER _____

3 $13/14 * 7/26 = ?$

ANSWER _____

4 $7.28 / 4 = ?$

ANSWER _____

5 $2.4 * 3.5 = ?$

ANSWER _____

6 $21 / 7 + 4 * 9 = ?$

ANSWER _____

APPLY IT Show your work

- 1** Maya has \$24.50 saved for an online game. She buys a \$7.85 add-on and a \$3.40 avatar pack. How much money does she have left?

WORK SPACE

ANSWER _____

- 2** A team has $7 \frac{1}{2}$ liters of sports drink and pours it equally into 4 large bottles. How many liters of sports drink go into each bottle?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

The game club buys 7 tournament passes that cost \$2.40 each. A \$1.80 coupon is taken off the total, and 4 students split the cost equally. How much does each student pay?

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	$7/10 + 4/9 = ?$	1 13/90
2	$11/12 - 2/7 = ?$	53/84
3	$13/14 * 7/26 = ?$	1/4
4	$7.28 / 4 = ?$	1.82
5	$2.4 * 3.5 = ?$	8.4
6	$21 / 7 + 4 * 9 = ?$	39

PART 2 • APPLY IT

1. **\$13.25** Subtract both costs from the amount saved: $24.50 - 7.85 - 3.40 = 13.25$.
2. **1 7/8 liters** Convert $7 \frac{1}{2}$ to $15/2$. Then $(15/2) / 4 = 15/8 = 1 \frac{7}{8}$.

CHALLENGE

\$3.75

Accept equivalent simplified fractions and either mixed-number or improper-fraction forms where appropriate. For money answers, accept the correct decimal amount with or without a dollar sign.