

Operation Mix-Up

Solve with whole numbers and fractions.

GRADE 5 • MA.5.AR.1

MA.5.AR.1 "Solve problems involving the four operations with whole numbers and fractions."

NAME _____

DATE _____

CHOOSE AND SOLVE

Use the operation that matches the problem, and estimate first to check whether your answer makes sense. For fractions, use a common denominator to add or subtract. Multiply straight across to multiply, and to divide, multiply by the second fraction flipped over.

WORKED EXAMPLE

Find $7/12 + 5/18$.

1. Find a common denominator: 36.
2. Rewrite: $7/12 = 21/36$ and $5/18 = 10/36$.
3. Add: $21/36 + 10/36 = 31/36$.

Answer: 31/36

PRACTICE 6 problems

1 $7,248 + 3,576 =$

ANSWER _____

2 $9,005 - 2,768 =$

ANSWER _____

3 $36 \times 24 =$

ANSWER _____

4 $945 \div 27 =$

ANSWER _____

5 $5/8 + 3/4 =$

ANSWER _____

6 $3/5 \times 10/21 =$

ANSWER _____

APPLY IT Show your work

- 1** Nia has $5\frac{1}{2}$ yards of fabric for a costume. She uses $2\frac{1}{4}$ yards for a cape and $\frac{3}{8}$ yard for a belt. How many yards of fabric are left?

WORK SPACE

ANSWER _____

- 2** A maker club has $8\frac{2}{3}$ meters of LED strip. The club divides it equally among 4 display teams. How many meters of LED strip does each team get?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A theater club has $12\frac{1}{2}$ yards of ribbon. It uses $3\frac{3}{4}$ yards for costumes, then cuts the rest into 5 equal lengths for props. How many yards of ribbon are in each length?

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	$7,248 + 3,576 =$	10,824
2	$9,005 - 2,768 =$	6,237
3	$36 \times 24 =$	864
4	$945 \div 27 =$	35
5	$5/8 + 3/4 =$	1 3/8
6	$3/5 \times 10/21 =$	2/7

PART 2 • APPLY IT

- 2 7/8 yards** Add the fabric Nia uses: $2 \frac{1}{4} + \frac{3}{8} = 2 \frac{5}{8}$. Subtract $2 \frac{5}{8}$ from $5 \frac{1}{2}$ to get $2 \frac{7}{8}$ yards.
- 2 1/6 meters** Rewrite $8 \frac{2}{3}$ as $\frac{26}{3}$. Divide by 4: $\frac{26}{3} \div 4 = \frac{26}{12} = 2 \frac{1}{6}$ meters.

CHALLENGE

1 3/4 yards

Accept equivalent fraction forms, including improper fractions when they are correct. For the challenge, students should subtract first, then divide the remaining ribbon equally.