

Fraction Fix-Up

Add and subtract fractions with unlike denominators.

GRADE 5 • MA.5.FR.2

MA.5.FR.2 "Perform operations with fractions."

NAME _____

DATE _____

MAKE DENOMINATORS MATCH

To add or subtract fractions with unlike denominators, rename the fractions using a common denominator. Then add or subtract the numerators, keep the denominator, and simplify when possible.

WORKED EXAMPLE

$$2/9 + 3/10$$

1. Find a common denominator: 90.
2. Rename: $2/9 = 20/90$ and $3/10 = 27/90$.
3. Add: $20/90 + 27/90 = 47/90$.

Answer: 47/90

PRACTICE 6 problems

1 $1/4 + 2/3 =$

ANSWER _____

2 $5/6 - 1/4 =$

ANSWER _____

3 $3/5 + 1/10 =$

ANSWER _____

4 $7/8 - 1/6 =$

ANSWER _____

5 $1\ 1/2 + 2/3 =$

ANSWER _____

6 $2\ 1/4 - 5/8 =$

ANSWER _____

APPLY IT Show your work

- 1** At a skate park, Nia rode $\frac{3}{4}$ mile before lunch and $\frac{5}{8}$ mile after lunch. How many miles did she ride altogether?

WORK SPACE

ANSWER _____

- 2** Kai has $2\frac{1}{2}$ hours of free time. He spends $\frac{3}{4}$ hour on homework and $\frac{2}{3}$ hour practicing music. How much free time does Kai have left?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Calculate $2\frac{1}{3} + \frac{3}{4} - \frac{5}{6}$. Show how you choose a common denominator.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	$1/4 + 2/3 =$	11/12
2	$5/6 - 1/4 =$	7/12
3	$3/5 + 1/10 =$	7/10
4	$7/8 - 1/6 =$	17/24
5	$1\ 1/2 + 2/3 =$	2 1/6
6	$2\ 1/4 - 5/8 =$	1 5/8

PART 2 • APPLY IT

- 1 3/8 miles** Rename $3/4$ as $6/8$, then add $6/8 + 5/8 = 11/8$. Rename $11/8$ as $1\ 3/8$.
- 1 1/12 hours** Use twelfths: $2\ 1/2 = 30/12$, $3/4 = 9/12$, and $2/3 = 8/12$. Subtract $9/12$ and $8/12$ from $30/12$ to get $13/12$, or $1\ 1/12$.

CHALLENGE

2 1/4; using twelfths, $2\ 1/3 = 28/12$, $3/4 = 9/12$, and $5/6 = 10/12$, so $28/12 + 9/12 - 10/12 = 27/12 = 2\ 1/4$.

Accept equivalent fraction forms when they are simplified correctly. For mixed-number answers, accept improper fractions that have the same value.