

Fraction Matchup

Rename fractions, then add or subtract.

GRADE 5 • 5.NF.A

CCSS.Math.Content.5.NF.A "Use equivalent fractions as a strategy to add and subtract fractions."

NAME _____

DATE _____

MAKE DENOMINATORS MATCH

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

WORKED EXAMPLE

$$4/9 + 5/12$$

1. Find a common denominator: 36.
2. Rename: $4/9 = 16/36$ and $5/12 = 15/36$.
3. Add: $16/36 + 15/36 = 31/36$.

Answer: 31/36

PRACTICE 6 problems

1 $1/4 + 2/3 =$

ANSWER _____

2 $7/8 - 1/6 =$

ANSWER _____

3 $3/5 + 1/4 =$

ANSWER _____

4 $7/12 - 1/8 =$

ANSWER _____

5 $2/7 + 3/14 =$

ANSWER _____

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

ANSWER _____

APPLY IT Show your work

- 1** Jordan biked $\frac{3}{4}$ mile to a friend's house and then biked $\frac{2}{5}$ mile to the park. How far did Jordan bike altogether?

WORK SPACE

ANSWER _____

- 2** Maya spent $2\frac{1}{4}$ hours building a game level. She spent $\frac{3}{5}$ hour choosing music for it. How much longer did she spend building the game level?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Find the value of $1\frac{1}{2} + \frac{3}{4} - \frac{2}{3}$. Show how you renamed the fractions before combining them.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	$1/4 + 2/3 =$	11/12
2	$7/8 - 1/6 =$	17/24
3	$3/5 + 1/4 =$	17/20
4	$7/12 - 1/8 =$	11/24
5	$2/7 + 3/14 =$	1/2
6	$2\ 3/4 - 1\ 2/5 =$	1 7/20

PART 2 • APPLY IT

- 1 **3/20 miles** Rename $3/4$ as $15/20$ and $2/5$ as $8/20$. Add to get $23/20$, or $1\ 3/20$ miles.
2. **1 13/20 hours** Rename $2\ 1/4$ as $2\ 5/20$ and $3/5$ as $12/20$. Subtract to get $1\ 13/20$ hours.

CHALLENGE

1 7/12

Accept equivalent simplified answers, including $23/20$ for the first word problem. For mixed-number answers, accept an equivalent improper fraction when it is correct.