

Fraction Mission

Add and subtract with unlike denominators.

GRADE 5 • 5.NR.3.3

5.NR.3.3 "Model and solve problems involving addition and subtraction of fractions and mixed numbers with unlike denominators."

NAME _____

DATE _____

MATCH THE DENOMINATORS

Before you add or subtract fractions, rename them with a common denominator. Then add or subtract the numerators, simplify if possible, and write an improper fraction as a mixed number.

WORKED EXAMPLE

$$\frac{1}{4} + \frac{3}{7}$$

1. The least common denominator of 4 and 7 is 28.
2. Rename: $\frac{1}{4} = \frac{7}{28}$ and $\frac{3}{7} = \frac{12}{28}$.
3. Add: $\frac{7}{28} + \frac{12}{28} = \frac{19}{28}$.

Answer: $\frac{19}{28}$

PRACTICE 6 problems

1 $\frac{5}{12} + \frac{7}{9} = \underline{\hspace{2cm}}$

ANSWER _____

2 $\frac{7}{10} - \frac{1}{6} = \underline{\hspace{2cm}}$

ANSWER _____

3 $1\frac{1}{4} + 2\frac{2}{3} = \underline{\hspace{2cm}}$

ANSWER _____

4 $4\frac{3}{5} - 1\frac{7}{12} = \underline{\hspace{2cm}}$

ANSWER _____

5 $2\frac{5}{6} + 1\frac{3}{10} = \underline{\hspace{2cm}}$

ANSWER _____

6 $5\frac{1}{8} - 2\frac{2}{5} = \underline{\hspace{2cm}}$

ANSWER _____

APPLY IT Show your work

- 1** Jayden practiced keyboard for $1\frac{3}{4}$ hours on Saturday and $2\frac{2}{5}$ hours on Sunday. How many hours did Jayden practice altogether?

WORK SPACE

ANSWER _____

- 2** Mina has $6\frac{1}{3}$ feet of yarn for friendship bracelets. She uses $2\frac{3}{4}$ feet. How many feet of yarn does Mina have left?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A robotics club has $6\frac{1}{4}$ meters of wire. It uses $1\frac{5}{6}$ meters for one project and $2\frac{3}{8}$ meters for another project. How many meters of wire are left?

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	$5/12 + 7/9 = \underline{\hspace{1cm}}$	1 7/36
2	$7/10 - 1/6 = \underline{\hspace{1cm}}$	8/15
3	$1\ 1/4 + 2\ 2/3 = \underline{\hspace{1cm}}$	3 11/12
4	$4\ 3/5 - 1\ 7/12 = \underline{\hspace{1cm}}$	3 1/60
5	$2\ 5/6 + 1\ 3/10 = \underline{\hspace{1cm}}$	4 2/15
6	$5\ 1/8 - 2\ 2/5 = \underline{\hspace{1cm}}$	2 29/40

PART 2 • APPLY IT

- 4 3/20 hours** Add the whole numbers and rename $3/4$ and $2/5$ with twentieths. The total is $4\ 3/20$ hours.
- 3 7/12 feet** Rename the fractional parts with twelfths, then subtract $2\ 3/4$ from $6\ 1/3$. Mina has $3\ 7/12$ feet left.

CHALLENGE

2 1/24 meters

Accept equivalent simplified answers when they name the same amount. For mixed-number subtraction, accept correct regrouping work and require the final answer in simplest form.