

# Fraction Trail Mix

Add and subtract fractions with matching denominators.

GRADE 4 • 4.NR.4.6

**4.NR.4.6** "Add and subtract fractions and mixed numbers with like denominators using a variety of tools."

NAME \_\_\_\_\_

DATE \_\_\_\_\_

## SAME DENOMINATOR, SAME SIZE PARTS

When fractions have like denominators, add or subtract the numerators and keep the denominator. If the numerator makes a whole, rename the answer as a whole number or mixed number. When subtracting mixed numbers, regroup one whole if the fractional part is too small.

## WORKED EXAMPLE

$$1 \frac{2}{9} + \frac{4}{9}$$

1. Add the fractional parts:  $\frac{2}{9} + \frac{4}{9} = \frac{6}{9}$ .
2. Keep the whole number:  $1 + \frac{6}{9} = 1 \frac{6}{9}$ .
3. Simplify  $\frac{6}{9}$  to  $\frac{2}{3}$ .

**Answer:  $1 \frac{2}{3}$**

## PRACTICE 6 problems

**1**  $\frac{3}{8} + \frac{2}{8} = \underline{\hspace{2cm}}$

ANSWER \_\_\_\_\_

**2**  $\frac{7}{10} - \frac{4}{10} = \underline{\hspace{2cm}}$

ANSWER \_\_\_\_\_

**3**  $2 \frac{1}{6} + 3 \frac{4}{6} = \underline{\hspace{2cm}}$

ANSWER \_\_\_\_\_

**4**  $6 \frac{5}{7} - 2 \frac{3}{7} = \underline{\hspace{2cm}}$

ANSWER \_\_\_\_\_

**5**  $4 \frac{3}{5} + \frac{2}{5} = \underline{\hspace{2cm}}$

ANSWER \_\_\_\_\_

**6**  $5 \frac{1}{4} - 2 \frac{3}{4} = \underline{\hspace{2cm}}$

ANSWER \_\_\_\_\_

## APPLY IT Show your work

- 1** Jalen practiced skateboard tricks for  $1\frac{7}{12}$  hours on Saturday and  $2\frac{3}{12}$  hours on Sunday. How many hours did he practice altogether?

WORK SPACE

ANSWER \_\_\_\_\_

- 2** A game design club has  $5\frac{3}{10}$  meters of ribbon for decorating a booth. The club uses  $1\frac{7}{10}$  meters. How much ribbon is left?

WORK SPACE

ANSWER \_\_\_\_\_

## CHALLENGE One step up

### CHALLENGE

Find the value:  $3\frac{5}{12} - 1\frac{8}{12} + 2\frac{7}{12} = \underline{\hspace{2cm}}$

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## PART 1 • PRACTICE

| # | PROBLEM                                                  | ANSWER                           |
|---|----------------------------------------------------------|----------------------------------|
| 1 | $\frac{3}{8} + \frac{2}{8} = \underline{\hspace{1cm}}$   | <b><math>\frac{5}{8}</math></b>  |
| 2 | $\frac{7}{10} - \frac{4}{10} = \underline{\hspace{1cm}}$ | <b><math>\frac{3}{10}</math></b> |
| 3 | $2\frac{1}{6} + 3\frac{4}{6} = \underline{\hspace{1cm}}$ | <b><math>5\frac{5}{6}</math></b> |
| 4 | $6\frac{5}{7} - 2\frac{3}{7} = \underline{\hspace{1cm}}$ | <b><math>4\frac{2}{7}</math></b> |
| 5 | $4\frac{3}{5} + \frac{2}{5} = \underline{\hspace{1cm}}$  | <b>5</b>                         |
| 6 | $5\frac{1}{4} - 2\frac{3}{4} = \underline{\hspace{1cm}}$ | <b><math>2\frac{1}{2}</math></b> |

## PART 2 • APPLY IT

- $3\frac{5}{6}$  hours** Add the whole numbers and the fractional parts:  $1\frac{7}{12} + 2\frac{3}{12} = 3\frac{10}{12}$ . Simplify  $\frac{10}{12}$  to  $\frac{5}{6}$ .
- $3\frac{3}{5}$  meters** Regroup  $5\frac{3}{10}$  as  $4\frac{13}{10}$ , then subtract  $1\frac{7}{10}$ . The result is  $3\frac{6}{10}$ , which simplifies to  $3\frac{3}{5}$ .

## CHALLENGE

 **$4\frac{1}{3}$** 

Accept equivalent fraction forms, but have students simplify when possible. For mixed-number subtraction, accept correct regrouping work and a correct final answer.