LESSON MAKER PRO

# Fraction Trail Mix

*Add and subtract with like 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 STRATEGY

When fractions have like denominators, keep the denominator the same. Add or subtract the numerators. For mixed numbers, combine the whole-number parts and fraction parts, and regroup one whole as a fraction when you need to subtract.

### WORKED EXAMPLE

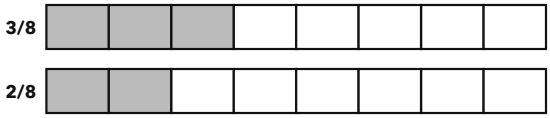
Find 6/17 + 9/17.

1. The denominators match, so keep 17.
2. Add the numerators: 6 + 9 = 15.
3. Write the sum as 15/17.

**Answer: 15/17**

## PRACTICE 6 problems

**1** Use the fraction bars if helpful. Find 3/8 + 2/8.




**ANSWER** _____

**2** Find 7/10 - 3/10.

**ANSWER** _____

**3** Find 1 1/4 + 2 2/4.

**ANSWER** _____

**4** Find 5 7/12 - 2 3/12.

**ANSWER** _____

**5** Find 2 5/14 + 1 8/14.

**ANSWER** _____

**6** Find 4 1/8 - 2 5/8. Show your regrouping.

**ANSWER** _____

## APPLY IT Show your work

**1** Jada spent 3 2/5 hours building a game level on Saturday and 1 1/5 hours on Sunday. How much time did she spend building the game level altogether?

WORK SPACE

**ANSWER** _____

**2** Mateo has 8 7/10 meters of string for a kite. He uses 3 4/10 meters. How much string is left?

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

Find 5 2/16 - 1 7/16 + 2 3/16. Show an equation for each step.

WORK SPACE AND ANSWER

**ANSWER KEY**

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**GRADE 4 · 4.NR.4.6**

## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | Use the fraction bars if helpful. Find 3/8 + 2/8. | **5/8** |
| 2 | Find 7/10 - 3/10. | **2/5** |
| 3 | Find 1 1/4 + 2 2/4. | **3 3/4** |
| 4 | Find 5 7/12 - 2 3/12. | **3 1/3** |
| 5 | Find 2 5/14 + 1 8/14. | **3 13/14** |
| 6 | Find 4 1/8 - 2 5/8. Show your regrouping. | **1 1/2** |

## PART 2 · APPLY IT

1. **4 3/5 hours** Add the whole numbers, then add the fractions: 3 + 1 = 4 and 2/5 + 1/5 = 3/5.
2. **5 3/10 meters** Subtract the whole numbers and the fractional parts: 8 - 3 = 5 and 7/10 - 4/10 = 3/10.

## CHALLENGE

**5 2/16 - 1 7/16 = 3 11/16; 3 11/16 + 2 3/16 = 5 14/16 = 5 7/8**

Accept equivalent fractions, including unsimplified forms, and equivalent improper fractions. For mixed-number subtraction, require correct regrouping when student work is shown.