LESSON MAKER PRO

Fraction Trail Mix

Add and subtract fractions 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 _____

FIND A COMMON DENOMINATOR

To add or subtract fractions with unlike denominators, choose a common denominator. Rename each fraction as an equivalent fraction, then add or subtract the numerators. Regroup an improper fraction as a mixed number when needed.

WORKED EXAMPLE

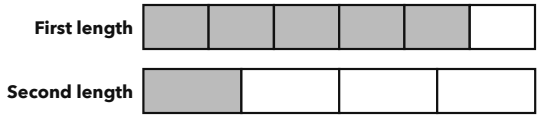
Find 2 2/9 + 5/11.

1. The least common denominator of 9 and 11 is 99.
2. Rename: 2 2/9 = 2 22/99 and 5/11 = 45/99.
3. Add: 2 22/99 + 45/99 = 2 67/99.

Answer: 2 67/99

PRACTICE 6 problems

1 The bars show two lengths. Add the shaded lengths. Write the sum in simplest form.



ANSWER _____

2 Find 7/8 - 1/3. Write the difference in simplest form.

ANSWER _____

3 Find 2 1/7 + 1 2/3. Write the sum in simplest form.

ANSWER _____

4 Find 4 1/5 - 2 3/4. Write the difference in simplest form.

ANSWER _____

5 Find 3/10 + 5/12. Write the sum in simplest form.

ANSWER _____

6 Find 5 1/6 - 2 3/8. Write the difference in simplest form.

ANSWER _____

APPLY IT Show your work

1 Jalen spent 2 5/8 hours creating a game level and 1 1/3 hours testing it. How much time did Jalen spend on both activities?

WORK SPACE

ANSWER _____

2 Nora has 4 1/6 meters of string for making bracelets. She uses 2 3/5 meters. How much string is left?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A robotics team has 6 1/4 meters of wire. They use 2 2/3 meters for one robot and 1 3/10 meters for another robot. How much wire is left? Show your fraction renaming.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Trail Mix

GRADE 5 · 5.NR.3.3

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	The bars show two lengths. Add the shaded lengths. Write the sum in simplest form.	**1 1/12**
2	Find 7/8 - 1/3. Write the difference in simplest form.	**13/24**
3	Find 2 1/7 + 1 2/3. Write the sum in simplest form.	**3 17/21**
4	Find 4 1/5 - 2 3/4. Write the difference in simplest form.	**1 9/20**
5	Find 3/10 + 5/12. Write the sum in simplest form.	**43/60**
6	Find 5 1/6 - 2 3/8. Write the difference in simplest form.	**2 19/24**

PART 2 · APPLY IT

1. **3 23/24 hours** Add 2 5/8 and 1 1/3 using 24 as a common denominator. The total is 95/24 hours, or 3 23/24 hours.
2. **1 17/30 meters** Subtract 2 3/5 from 4 1/6 using 30 as a common denominator. The difference is 47/30 meters, or 1 17/30 meters.

CHALLENGE

2 17/60 meters

Accept equivalent unsimplified fractions only if the student also gives the correct simplified answer. For answers greater than 1, accept an improper fraction that is equivalent to the stated mixed-number answer.