LESSON MAKER PRO

Fraction Trail Mix

Add and subtract fractions with different denominators.

GRADE 5 · MA.5.FR.2.1

MA.5.FR.2.1 "Add and subtract fractions with unlike denominators, including mixed numbers and fractions greater than 1, with procedural reliability."

NAME _____ DATE _____

MATCH THE DENOMINATORS

To add or subtract fractions with unlike denominators, rename both fractions using a common denominator. Then add or subtract the numerators and keep the denominator. For mixed numbers, work with the whole numbers and fractions, and regroup one whole if needed when subtracting.

WORKED EXAMPLE

5/12 + 7/18

1. Find a common denominator: 36.
2. Rename: 5/12 = 15/36 and 7/18 = 14/36.
3. Add: 15/36 + 14/36 = 29/36.

Answer: 29/36

PRACTICE 6 problems

1 1/4 + 2/3 = ___

ANSWER _____

2 7/10 - 1/6 = ___

ANSWER _____

3 1 3/8 + 2 1/6 = ___

ANSWER _____

4 4 1/5 - 2 3/4 = ___

ANSWER _____

5 9/14 + 5/21 = ___

ANSWER _____

6 3 2/9 - 7/12 = ___

ANSWER _____

APPLY IT Show your work

1 Maya spent 3/8 hour designing a game level and 5/12 hour testing it. How much time did she spend altogether?

WORK SPACE

ANSWER _____

2 The robotics team had 4 1/2 meters of wire. They used 1 3/4 meters to build a robot. How much wire was left?

WORK SPACE

ANSWER _____

CHALLENGE One step up

On a hiking game, a player needs to travel 5 1/6 miles. The player travels 1 3/4 miles on Saturday and 2 2/3 miles on Sunday. How many miles are left?

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Trail Mix

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	1/4 + 2/3 = ___	**11/12**
2	7/10 - 1/6 = ___	**8/15**
3	1 3/8 + 2 1/6 = ___	**3 13/24**
4	4 1/5 - 2 3/4 = ___	**1 9/20**
5	9/14 + 5/21 = ___	**37/42**
6	3 2/9 - 7/12 = ___	**2 23/36**

PART 2 · APPLY IT

1. **19/24 hour** Use 24 as the common denominator. Add 9/24 and 10/24 to get 19/24 hour.
2. **2 3/4 meters** Rename 4 1/2 as 4 2/4. Subtract 1 3/4 from 4 2/4 by regrouping one whole.

CHALLENGE

3/4 mile

Accept equivalent fraction forms, but students should simplify final answers when possible. For mixed-number subtraction, accept correct regrouping work or an equivalent improper-fraction method.