LESSON MAKER PRO

Fraction Fix-Up

Add and subtract fractions with unlike denominators.

GRADE 5 · MA.5.FR.2

MA.5.FR.2 "Perform operations with fractions."

NAME _____ DATE _____

MAKE DENOMINATORS MATCH

To add or subtract fractions with unlike denominators, rename the fractions using a common denominator. Then add or subtract the numerators, keep the denominator, and simplify when possible.

WORKED EXAMPLE

2/9 + 3/10

1. Find a common denominator: 90.
2. Rename: 2/9 = 20/90 and 3/10 = 27/90.
3. Add: 20/90 + 27/90 = 47/90.

Answer: 47/90

PRACTICE 6 problems

1 1/4 + 2/3 =

ANSWER _____

2 5/6 - 1/4 =

ANSWER _____

3 3/5 + 1/10 =

ANSWER _____

4 7/8 - 1/6 =

ANSWER _____

5 1 1/2 + 2/3 =

ANSWER _____

6 2 1/4 - 5/8 =

ANSWER _____

APPLY IT Show your work

1 At a skate park, Nia rode 3/4 mile before lunch and 5/8 mile after lunch. How many miles did she ride altogether?

WORK SPACE

ANSWER _____

2 Kai has 2 1/2 hours of free time. He spends 3/4 hour on homework and 2/3 hour practicing music. How much free time does Kai have left?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Calculate 2 1/3 + 3/4 - 5/6. Show how you choose a common denominator.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Fix-Up

GRADE 5 · MA.5.FR.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	1/4 + 2/3 =	**11/12**
2	5/6 - 1/4 =	**7/12**
3	3/5 + 1/10 =	**7/10**
4	7/8 - 1/6 =	**17/24**
5	1 1/2 + 2/3 =	**2 1/6**
6	2 1/4 - 5/8 =	**1 5/8**

PART 2 · APPLY IT

1. **1 3/8 miles** Rename 3/4 as 6/8, then add 6/8 + 5/8 = 11/8. Rename 11/8 as 1 3/8.
2. **1 1/12 hours** Use twelfths: 2 1/2 = 30/12, 3/4 = 9/12, and 2/3 = 8/12. Subtract 9/12 and 8/12 from 30/12 to get 13/12, or 1 1/12.

CHALLENGE

2 1/4; using twelfths, 2 1/3 = 28/12, 3/4 = 9/12, and 5/6 = 10/12, so 28/12 + 9/12 - 10/12 = 27/12 = 2 1/4.

Accept equivalent fraction forms when they are simplified correctly. For mixed-number answers, accept improper fractions that have the same value.