LESSON MAKER PRO

Fraction Matchups

Use equivalent fractions to add and subtract.

GRADE 5 · MT.5.NF.1

MT.5.NF.1 "Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions."

NAME _____ DATE _____

FIND A COMMON DENOMINATOR

To add or subtract fractions with unlike denominators, rewrite them as equivalent fractions with a common denominator. Then add or subtract the numerators and simplify. With mixed numbers, you may need to regroup a whole before subtracting.

WORKED EXAMPLE

Find 2/9 + 1/6.

1. Use 18 as a common denominator.
2. Rewrite: 2/9 = 4/18 and 1/6 = 3/18.
3. Add: 4/18 + 3/18 = 7/18.

Answer: 7/18

PRACTICE 6 problems

1 Find 2/3 + 1/4.

ANSWER _____

2 Find 5/8 - 1/4.

ANSWER _____

3 Find 3/5 + 1/10.

ANSWER _____

4 Find 7/12 - 1/6.

ANSWER _____

5 Find 1 1/2 + 2/3.

ANSWER _____

6 Find 3 1/4 - 1 2/3.

ANSWER _____

APPLY IT Show your work

1 At a game event, Leo played for 1 3/4 hours on Friday and 2 2/3 hours on Saturday. How many hours did he play altogether?

WORK SPACE

ANSWER _____

2 Nia has 3 2/5 meters of fabric for a costume. She uses 1 3/4 meters. How much fabric does she have left?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Find 2 1/3 - 5/6 + 3/4. Show equivalent fractions with one common denominator for all three fractions.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Matchups

GRADE 5 · MT.5.NF.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 2/3 + 1/4.	**11/12**
2	Find 5/8 - 1/4.	**3/8**
3	Find 3/5 + 1/10.	**7/10**
4	Find 7/12 - 1/6.	**5/12**
5	Find 1 1/2 + 2/3.	**2 1/6**
6	Find 3 1/4 - 1 2/3.	**1 7/12**

PART 2 · APPLY IT

1. **4 5/12 hours** Rewrite the fractions as 9/12 and 8/12. Then 1 9/12 + 2 8/12 = 4 5/12 hours.
2. **1 13/20 meters** Rewrite the fractions as 8/20 and 15/20, then regroup: 3 8/20 = 2 28/20. Subtract 1 15/20 to get 1 13/20 meters.

CHALLENGE

2 4/12 - 10/12 + 9/12 = 2 3/12 = 2 1/4

Accept equivalent forms of each answer. For the challenge, students must show all three fractions with the same denominator.