LESSON MAKER PRO

Mixed Number Moves

Add and subtract by changing mixed numbers into fractions.

GRADE 4 · 4.NF.3c

4.NF.3c "Understand a fraction a/b with a > 1 as a sum of unit fractions (1/b). Add and subtract mixed numbers with like denominators by replacing each mixed number with an equivalent fraction..."

NAME _____ DATE _____

CHANGE, THEN CALCULATE

To add or subtract mixed numbers with the same denominator, change each mixed number into a fraction. Multiply the whole number by the denominator and add the numerator, then add or subtract the new numerators.

WORKED EXAMPLE

Find 4 2/9 - 1 5/9.

1. Change 4 2/9 to 38/9.
2. Change 1 5/9 to 14/9.
3. Subtract: 38/9 - 14/9 = 24/9.

Answer: 2 2/3

PRACTICE 6 problems

1 Find 1 2/5 + 2 1/5.

ANSWER _____

2 Find 3 3/8 + 1 6/8.

ANSWER _____

3 Find 5 3/6 - 2 1/6.

ANSWER _____

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

ANSWER _____

5 Find 2 5/12 + 3 11/12.

ANSWER _____

6 Find 7 1/10 - 3 8/10.

ANSWER _____

APPLY IT Show your work

1 You use 2 3/8 feet of tape for the edges of a cardboard arcade game and 1 7/8 feet for its targets. How many feet of tape do you use in all?

WORK SPACE

ANSWER _____

2 A team cooler holds 6 1/5 liters of water. The players drink 2 4/5 liters. How much water is left?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Which result is greater: 3 3/4 + 1 2/4 or 6 1/4 - 1 3/4? How much greater is it? Show each calculation using equivalent fractions.

WORK SPACE AND ANSWER

ANSWER KEY

Mixed Number Moves

GRADE 4 · 4.NF.3c

PART 1 · PRACTICE

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

PART 2 · APPLY IT

1. **4 1/4 feet** Add 19/8 + 15/8 = 34/8. Change 34/8 to 4 1/4.
2. **3 2/5 liters** Subtract 31/5 - 14/5 = 17/5. Change 17/5 to 3 2/5.

CHALLENGE

3 3/4 + 1 2/4 = 15/4 + 6/4 = 21/4. Also, 6 1/4 - 1 3/4 = 25/4 - 7/4 = 18/4, so the first result is 3/4 greater.

Accept equivalent fractions or mixed numbers, including answers that are not simplified. For the challenge, look for correct equivalent fractions for both calculations and a difference of 3/4.