LESSON MAKER PRO

Fraction Moves

Add and subtract parts of the same whole.

GRADE 5 · 5.NOS.C.9

5.NOS.C.9 "Solve problems in context involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators using visual fraction models and/or equations to represent the problem."

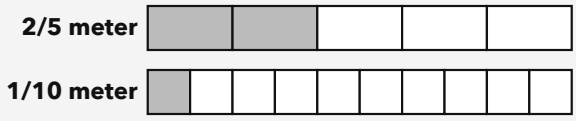
NAME _____ DATE _____

FIND COMMON PARTS

To add or subtract fractions of the same whole, rename them with a common denominator. Then add or subtract the numerators and simplify.

WORKED EXAMPLE

A ribbon is 2/5 meter long. You add 1/10 meter. How long is it now?



1. Rename 2/5 as 4/10.
2. Add: 4/10 + 1/10 = 5/10.
3. Simplify: 5/10 = 1/2.

Answer: 1/2 meter

PRACTICE 4 problems

1 You bike 1/3 mile, then 1/6 mile. How far do you bike?

ANSWER _____

2 Cut 1/8 yard from 3/4 yard of fabric. How much is left?

ANSWER _____

3 Walk 5/12 mile, then 1/4 mile. How far do you walk?

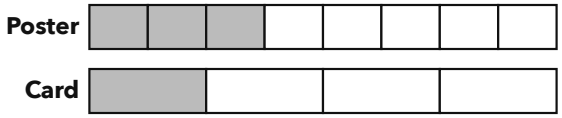
ANSWER _____

4 Pour out 1/3 liter from 7/9 liter of juice. How much remains?

ANSWER _____

APPLY IT Show your work

1 For a project, you use 3/8 of a roll of tape on a poster and 1/4 of the same roll on a card. What fraction of the roll do you use? Write an equation.



ANSWER _____

2 At movie night, a bowl holds 5/6 of a bag of popcorn. Friends eat 1/4 of a full bag. How much of the bag remains? Write an equation.

WORK SPACE

ANSWER _____

CHALLENGE One step up

You have 7/8 yard of ribbon. You cut off 1/3 yard, then 1/4 yard. How much remains? Write an equation.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Moves

GRADE 5 · 5.NOS.C.9

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	You bike 1/3 mile, then 1/6 mile. How far do you bike?	**1/2 mile**
2	Cut 1/8 yard from 3/4 yard of fabric. How much is left?	**5/8 yard**
3	Walk 5/12 mile, then 1/4 mile. How far do you walk?	**2/3 mile**
4	Pour out 1/3 liter from 7/9 liter of juice. How much remains?	**4/9 liter**

PART 2 · APPLY IT

1. **3/8 + 1/4 = 5/8 of a roll** Rename 1/4 as 2/8. Then add 3/8 + 2/8 = 5/8.
2. **5/6 - 1/4 = 7/12 of a bag** Rename the fractions as 10/12 and 3/12. Subtract to get 7/12.

CHALLENGE

7/8 - 1/3 - 1/4 = 21/24 - 8/24 - 6/24 = 7/24 yard

Accept equivalent fractions and equations that show correct reasoning. Units should match the quantities in each problem.