LESSON MAKER PRO

Fraction Parts Together

Join, separate, and regroup equal parts

GRADE 4 · 4.NF.B.15

4.NF.B.15 "Model and justify decompositions of fractions and explain addition and subtraction of fractions as joining or separating parts referring to the same whole. a..."

NAME _____ DATE _____

THE BIG IDEA

To add or subtract fractions, the parts must refer to the same whole and have the same denominator. Add or subtract the numerators, and keep the denominator. If a mixed number does not have enough fractional parts to subtract, trade 1 whole for a fraction with the same denominator.

WORKED EXAMPLE

Find 1 2/10 + 2 5/10.

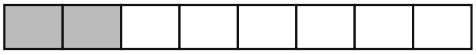
1. Add the wholes: 1 + 2 = 3.
2. Add the tenths: 2/10 + 5/10 = 7/10.
3. Join the results: 3 + 7/10 = 3 7/10.

Answer: 3 7/10

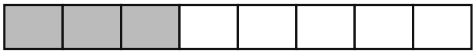
PRACTICE 6 problems

1 The bars show parts of the same whole. Write an addition equation for the shaded parts.

First



Second



ANSWER _____

2 Use the shaded bar to write 5/6 as a sum of unit fractions.

5/6



ANSWER _____

3 Write two different ways to split 7/8 into a sum of two fractions with denominator 8.

7/8



ANSWER _____

_____

4 Find 1 3/4 + 2 2/4.

ANSWER _____

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

ANSWER _____

6 Fill in the blank: 4/5 + ___ = 1 2/5.

ANSWER _____

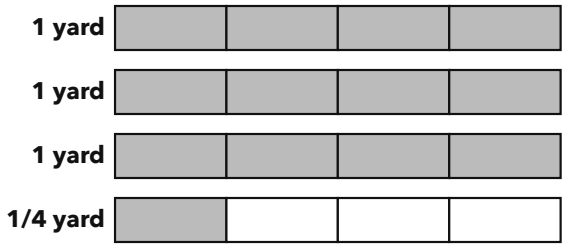
APPLY IT Show your work

1 Ari paints 3/8 of a mural on Monday and 4/8 of the same mural on Tuesday. Use the bars to find how much of the mural Ari paints in all. Write an equation.



ANSWER _____

2 The bars show a ribbon that is 3 1/4 yards long. You cut off 1 3/4 yards for a costume. How much ribbon is left? Write a subtraction equation.



ANSWER _____

CHALLENGE One step up

Find 5 1/8 - 2 6/8. Write an equation showing how you trade 1 whole before subtracting. Then write an addition equation to check your answer.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Parts Together

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	The bars show parts of the same whole. Write an addition equation for the shaded parts.	**2/8 + 3/8 = 5/8**
2	Use the shaded bar to write 5/6 as a sum of unit fractions.	**5/6 = 1/6 + 1/6 + 1/6 + 1/6 + 1/6**
3	Write two different ways to split 7/8 into a sum of two fractions with denominator 8.	**7/8 = 1/8 + 6/8; 7/8 = 3/8 + 4/8**
4	Find 1 3/4 + 2 2/4.	**4 1/4**
5	Find 3 1/6 - 1 4/6.	**1 1/2**
6	Fill in the blank: 4/5 + ___ = 1 2/5.	**3/5**

PART 2 · APPLY IT

1. **3/8 + 4/8 = 7/8 of the mural** The bars show eighths of the same mural. Join the shaded parts: 3 eighths plus 4 eighths is 7 eighths.
2. **3 1/4 - 1 3/4 = 1 1/2 yards** Trade 1 yard for 4/4 yard, so 3 1/4 becomes 2 5/4. Then 2 5/4 - 1 3/4 = 1 2/4, or 1 1/2 yards.

CHALLENGE

5 1/8 = 4 9/8; 4 9/8 - 2 6/8 = 2 3/8; 2 3/8 + 2 6/8 = 5 1/8

Accept equivalent fractions or mixed numbers unless a problem asks for a specific denominator or unit-fraction form. For the two-way decomposition, accept any two distinct sums of two eighths that each equal 7/8.