LESSON MAKER PRO

Fraction Parts Unite

Add and subtract parts of the same whole

GRADE 4 · 4.NOS.E.12

4.NOS.E.12 "Apply and extend previous understanding of addition and subtraction of whole numbers to add and subtract fractions with like denominators..."

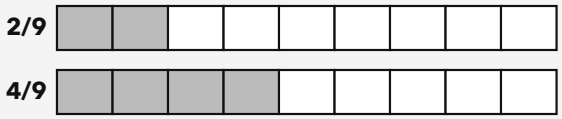
NAME _____ DATE _____

SAME-SIZE PARTS

When fractions have the same denominator, their parts are the same size. Add or subtract the numerators, and keep the denominator the same.

WORKED EXAMPLE

Use the bars to find 2/9 + 4/9.



1. Join the shaded parts: 2 + 4 = 6.
2. Keep ninths: 2/9 + 4/9 = 6/9.

Answer: 6/9, or 2/3

PRACTICE 4 problems

1 3/8 + 4/8 = ___

ANSWER _____

2 9/10 - 4/10 = ___

ANSWER _____

3 5/12 + 9/12 = ___

ANSWER _____

4 11/8 - 5/8 = ___

ANSWER _____

APPLY IT Show your work

1 The bars show how much of one comic Lena reads on two days. What fraction does she read in all? Write an equation.



ANSWER _____

2 The bar shows how much of a full bag of popcorn is left. Sam eats 3/10 of a full bag. What fraction remains? Write an equation.



ANSWER _____

CHALLENGE One step up

Explain why 5/6 + 4/6 is greater than 1 without adding first. Then find the sum.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Parts Unite

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	3/8 + 4/8 = ___	**7/8**
2	9/10 - 4/10 = ___	**5/10, or 1/2**
3	5/12 + 9/12 = ___	**14/12, or 1 1/6**
4	11/8 - 5/8 = ___	**6/8, or 3/4**

PART 2 · APPLY IT

1. **3/8 + 2/8 = 5/8** The bars show 3/8 and 2/8 of the same comic. Add the eighths.
2. **7/10 - 3/10 = 4/10, or 2/5** The bar shows 7/10 of the bag. Subtract the 3/10 Sam eats.

CHALLENGE

Each fraction is greater than 1/2, so their sum is greater than 1. The sum is 9/6, or 1 1/2.

Accept equivalent fractions and mixed numbers. For the challenge, accept any valid comparison to 1 that explains why the sum is greater.