LESSON MAKER PRO

Fraction Sense

Add, subtract, and check fractions of the same whole

GRADE 5 · 5.NF.A.9

5.NF.A.9 "Model and solve real-word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, using visual fraction models or equations to represent the problem..."

NAME _____ DATE _____

THE BIG IDEA

To add or subtract fractions of the same whole, rename them with a common denominator. Use 0, 1/2, or 1 to estimate and check if your answer makes sense.

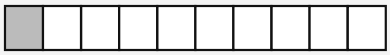
WORKED EXAMPLE

A trail has a 3/5-mile section and a 1/10-mile section. How long are the sections together?

First section



Second section



1. Rename 3/5 as 6/10.
2. Add: 6/10 + 1/10 = 7/10.
3. Check: 7/10 is between 1/2 and 1.

Answer: 7/10 mile

PRACTICE 4 problems

1 1/2 + 1/4 = ___

ANSWER _____

2 7/8 - 1/4 = ___

ANSWER _____

3 1/3 + 1/4 = ___

ANSWER _____

4 5/6 - 1/3 = ___. Is the answer near 0, 1/2, or 1?

ANSWER _____

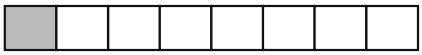
APPLY IT Show your work

1 The bars show two parts of one game download. What fraction of the game downloads in all?

First part



Second part



ANSWER _____

2 Art covers 5/6 of a class banner. The class removes art from 1/4 of the banner. What fraction is still covered?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Maya says 7/8 - 1/3 = 4/5. Find the correct difference. Use a benchmark to explain why 4/5 cannot be right.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Sense

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	1/2 + 1/4 = ___	**3/4**
2	7/8 - 1/4 = ___	**5/8**
3	1/3 + 1/4 = ___	**7/12**
4	5/6 - 1/3 = ___. Is the answer near 0, 1/2, or 1?	**1/2; near 1/2**

PART 2 · APPLY IT

1. **7/8 of the game** Add 3/4 + 1/8 = 6/8 + 1/8 = 7/8. This is close to 1 whole game.
2. **7/12 of the banner** Subtract 5/6 - 1/4 = 10/12 - 3/12 = 7/12. This is close to 1/2.

CHALLENGE

13/24. Since 7/8 < 1 and 1/3 > 1/4, the difference is less than 3/4. But 4/5 > 3/4.

Accept equivalent fractions. For the challenge, accept another valid benchmark argument showing that 4/5 is too large.