LESSON MAKER PRO

Fraction Building Lab

Build, add, and subtract equal-size fraction pieces.

GRADE 4 · 4.NF.B

CCSS.Math.Content.4.NF.B "Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers."

NAME _____ DATE _____

BUILD WITH UNIT FRACTIONS

A fraction is made from copies of a unit fraction with the same denominator. When fractions have the same denominator, add or subtract the numerators and keep the denominator.

WORKED EXAMPLE

Find 4/12 + 6/12.

1. 4/12 is 4 copies of 1/12, and 6/12 is 6 copies of 1/12.
2. Add the copies: 4 + 6 = 10.
3. Keep the denominator: 10/12.

Answer: 10/12

PRACTICE 6 problems

1 1/6 + 2/6 = ?

ANSWER _____

2 7/10 - 2/10 = ?

ANSWER _____

3 3 x 1/8 = ?

ANSWER _____

4 Write 5/8 as a sum of unit fractions.

ANSWER _____

5 7/12 + 1/12 = ?

ANSWER _____

6 9/100 - 2/100 = ?

ANSWER _____

APPLY IT Show your work

1 At the game club, Amir earned 3/8 of the points needed to unlock a new game on Monday and 2/8 on Tuesday. What fraction of the needed points has he earned?

WORK SPACE

ANSWER

2 Riley read 7/12 of a comic book. What fraction of the comic book is left unread?

WORK SPACE

ANSWER

CHALLENGE One step up

Lee says 3/4 + 3/4 = 6/8 because both the tops and bottoms are added. Is Lee correct? Explain using equal-sized fraction pieces.

WORK SPACE AND ANSWER

ANSWER KEY

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	1/6 + 2/6 = ?	**3/6**
2	7/10 - 2/10 = ?	**5/10**
3	3 x 1/8 = ?	**3/8**
4	Write 5/8 as a sum of unit fractions.	**1/8 + 1/8 + 1/8 + 1/8 + 1/8**
5	7/12 + 1/12 = ?	**8/12**
6	9/100 - 2/100 = ?	**7/100**

PART 2 · APPLY IT

1. **5/8** Add the fractions because Amir earned both parts. 3/8 + 2/8 = 5/8.
2. **5/12** A whole comic book is 12/12. Subtract: 12/12 - 7/12 = 5/12.

CHALLENGE

No. Fourths remain fourths: 3/4 + 3/4 = 6/4 = 1 2/4. Adding the denominators would change the size of each piece.

Accept equivalent fractions when they represent the same amount. For same-denominator addition and subtraction, students should keep the denominator and combine only the numerators.