LESSON MAKER PRO

Fraction Trail Mix

Add, subtract, match, and compare fractions.

GRADE 4 · 4.NR.4

4.NR.4 "Solve real-life problems involving addition, subtraction, equivalence, and comparison of fractions with denominators of 2, 3, 4, 5, 6, 8, 10, 12, and 100 using part-whole strategies and visual models."

NAME _____ DATE _____

BUILD EQUAL PARTS

Fractions with the same denominator name parts of the same size. Add or subtract the numerators and keep the denominator. To compare fractions with different denominators, rename them with equal-sized parts or use a fraction model.

WORKED EXAMPLE

Find 5/12 + 2/12.

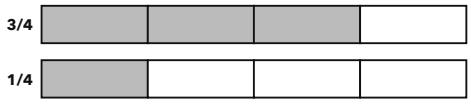


1. Both fractions have 12 as the denominator.
2. Add the numerators: 5 + 2 = 7.
3. Keep the denominator 12.

Answer: 7/12

PRACTICE 6 problems

1 Find 3/4 + 1/4.



ANSWER _____

2 Find 8/10 - 3/10. Write the answer in simplest form.

ANSWER _____

3 Circle the fraction that is equivalent to 1/3: 2/6 or 3/6.

ANSWER _____

4 Write >, <, or =. 3/8 ___ 6/8

ANSWER _____

5 Use the models. Write an equation to show whether the fractions are equivalent.



ANSWER _____

6 A whole is split into 100 equal pieces. Shade 37 pieces in your mind. Write the fraction shaded, then compare it to 40/100 using >, <, or =.

ANSWER _____

APPLY IT Show your work

1 At soccer practice, Nia spent 3/6 of an hour practicing kicks and 1/6 of an hour stretching. What fraction of an hour did she spend on both activities? Write the answer in simplest form.

WORK SPACE

ANSWER _____

2 Owen read 5/8 of a graphic novel on Saturday. By the end of Sunday, he had read 7/8 of the novel. What fraction of the novel did he read on Sunday? Write the answer in simplest form.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A game lasts 1 hour. Jae spends 3/4 hour building a level and 1/6 hour testing it. Does Jae have time left in the hour? Explain by renaming the fractions with a common denominator.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Trail Mix

GRADE 4 · 4.NR.4

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 3/4 + 1/4.	**1**
2	Find 8/10 - 3/10. Write the answer in simplest form.	**1/2**
3	Circle the fraction that is equivalent to 1/3: 2/6 or 3/6.	**2/6**
4	Write >, <, or =. 3/8 ___ 6/8	**<**
5	Use the models. Write an equation to show whether the fractions are equivalent.	**1/2 = 4/8**
6	A whole is split into 100 equal pieces. Shade 37 pieces in your mind. Write the fraction shaded, then compare it to 40/100 using >, <, or =.	**37/100 < 40/100**

PART 2 · APPLY IT

1. **2/3 hour** Add the parts with the same denominator: 3/6 + 1/6 = 4/6. Simplify 4/6 to 2/3.
2. **1/4 of the novel** Subtract the amount read on Saturday from the total read: 7/8 - 5/8 = 2/8. Simplify 2/8 to 1/4.

CHALLENGE

Yes. 3/4 = 9/12 and 1/6 = 2/12. Jae uses 11/12 hour, so 1/12 hour is left.

Accept equivalent fraction forms when they correctly represent the answer, unless the item asks for simplest form. For the challenge, accept any correct common-denominator explanation that shows 1/12 hour remains.