LESSON MAKER PRO

Fraction Match Makers

Build fractions that name the same amount.

GRADE 4 · MA.4.FR.1.3

MA.4.FR.1.3 "Identify and generate equivalent fractions, including fractions greater than one. Describe how the numerator and denominator are affected when the equivalent fraction is created."

NAME _____ DATE _____

SAME VALUE, NEW FORM

Equivalent fractions name the same amount. Multiply or divide the numerator and denominator by the same whole number other than 0 to create an equivalent fraction, even when the fraction is greater than 1.

WORKED EXAMPLE

Write an equivalent fraction for 7/9 with denominator 18.

1. Start with 7/9.
2. Multiply the numerator and denominator by 2.
3. 7 times 2 = 14 and 9 times 2 = 18.

Answer: 7/9 = 14/18

PRACTICE 6 problems

1 Complete the equivalent fraction: 2/3 = ___/12

ANSWER _____

2 Complete the equivalent fraction: 5/6 = 20/___

ANSWER _____

3 Complete the equivalent fraction: 4/11 = ___/33

ANSWER _____

4 Complete the equivalent fraction: 13/4 = ___/8

ANSWER _____

5 Complete the equivalent fraction: 15/10 = 3/___

ANSWER _____

6 How was 6/13 changed to make 30/65? Describe what happened to both the numerator and denominator.

ANSWER _____

APPLY IT Show your work

1 At a bike challenge, Kai rode 5/4 mile. The score card records distances in sixteenths. Write Kai's distance as an equivalent fraction with denominator 16. Tell what happened to the numerator and denominator.

WORK SPACE

ANSWER

2 In a student club vote, 16 out of 20 students chose the art club. Write this fraction with denominator 5. Tell whether you multiplied or divided, and by what number.

WORK SPACE

ANSWER

CHALLENGE One step up

Mila says that 16/20 and 12/15 are equivalent. Is Mila correct? Explain by writing both fractions as the same equivalent fraction.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Match Makers

GRADE 4 · MA.4.FR.1.3

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Complete the equivalent fraction: 2/3 = ___/12	**8 (2/3 = 8/12)**
2	Complete the equivalent fraction: 5/6 = 20/___	**24**
3	Complete the equivalent fraction: 4/11 = ___/33	**12 (4/11 = 12/33)**
4	Complete the equivalent fraction: 13/4 = ___/8	**26 (13/4 = 26/8)**
5	Complete the equivalent fraction: 15/10 = 3/___	**2**
6	How was 6/13 changed to make 30/65? Describe what happened to both the numerator and denominator.	**Both the numerator and denominator were multiplied by 5.**

PART 2 · APPLY IT

1. **20/16** Both the numerator and denominator were multiplied by 4. Multiply 5 and 4 by 4 to make the denominator 16. This gives 20/16.
2. **4/5** Divide the numerator and denominator by 4. Divide 16 and 20 by 4. This gives 4/5.

CHALLENGE

Yes. 16/20 = 4/5 and 12/15 = 4/5.

For explanations, accept wording that clearly states the same factor was used on both the numerator and denominator. For the challenge, accept any correct reasoning that shows both fractions have the same value.