LESSON MAKER PRO

Fraction Matchups

Make new fractions with the same value.

GRADE 4 · 4.NOS.D.9.a

4.NOS.D.9.a "Identify and generate equivalent fractions using representations and the Identity Property of Multiplication."

NAME _____ DATE _____

SAME VALUE, NEW PARTS

Multiply the top and bottom of a fraction by the same number. This is like multiplying by 1, so the fraction keeps its value.

WORKED EXAMPLE

The bars show the same shaded amount. Complete 2/5 = ____/15.



1. Multiply by 3/3, which equals 1.
2. 2 × 3 = 6 and 5 × 3 = 15.

Answer: 2/5 = 6/15

PRACTICE 4 problems

1 Complete: 1/4 = ___/12

ANSWER _____

2 Complete: 3/7 = 9/___

ANSWER _____

3 Complete: 4/9 = ___/36

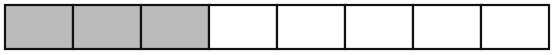
ANSWER _____

4 Complete: 7/13 = 21/___

ANSWER _____

APPLY IT Show your work

1 The bar shows dance songs in a playlist. What fraction of the songs are dance songs? Write an equal fraction with 24 on the bottom.



ANSWER _____

2 The bar shows stages finished in a school fair game. What fraction of the stages are finished? Write an equal fraction with 21 on the bottom.



ANSWER _____

CHALLENGE One step up

Complete both blanks: 3/11 = ___/33 = 15/___. Explain why both new fractions equal 3/11.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Matchups

GRADE 4 · 4.NOS.D.9.a

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Complete: 1/4 = ___/12	**3**
2	Complete: 3/7 = 9/___	**21**
3	Complete: 4/9 = ___/36	**16**
4	Complete: 7/13 = 21/___	**39**

PART 2 · APPLY IT

1. **3/8 = 9/24** The bar shows 3 of 8 songs shaded. Multiply the top and bottom by 3.
2. **4/7 = 12/21** The bar shows 4 of 7 stages shaded. Multiply the top and bottom by 3.

CHALLENGE

3/11 = 9/33 = 15/55. Multiplying by 3/3 or 5/5 is multiplying by 1, so the value stays the same.

For the challenge, accept an explanation that both the top and bottom are multiplied by the same number.