LESSON MAKER PRO

# Fraction Match

*Make equal fractions in different ways.*

**GRADE 4 · 4.NOS.D.9**

**4.NOS.D.9** "Understand and generate equivalent fractions. Identify and generate equivalent fractions using representations and the Identity Property of Multiplication. Explain why fractions are equivalent (c/d = (n × c)/(n × d))."

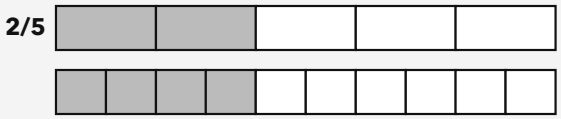
NAME _____ DATE _____

## SAME AMOUNT, NEW PARTS

Multiply the top and bottom numbers of a fraction by the same whole number to make an equivalent fraction. The amount stays the same because you are multiplying by a fraction equal to 1.

### WORKED EXAMPLE

Use the bars to write a fraction equal to 2/5 with 10 parts.




1. 10 ÷ 5 = 2.
2. Multiply the top number: 2 × 2 = 4.
3. Multiply the bottom number: 5 × 2 = 10.

**Answer: 2/5 = 4/10**

## PRACTICE 4 problems

**1** Fill in the blank: 1/4 = ___/12.

**ANSWER** _____

**2** Fill in the blank: 3/8 = 9/___.

**ANSWER** _____

**3** Fill in the blank: 6/14 = ___/7.

**ANSWER** _____

**4** Fill in the blank: 7/9 = ___/27.

**ANSWER** _____

## APPLY IT Show your work

**1** At a sticker swap, Mia has used 4/8 of her sheet. What fraction of a 16-part sheet shows the same amount? Use the bars.




**ANSWER** _____

**2** Leo colors 7/10 of a prize card. A new card has 30 equal boxes. How many boxes should he color to show the same amount?

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

A student writes 6/8 = 18/16. Explain the mistake. Then write a fraction equal to 6/8 with a bottom number of 16.

WORK SPACE AND ANSWER

**ANSWER KEY**

# Fraction Match

**GRADE 4 · 4.NOS.D.9**

## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | Fill in the blank: 1/4 = ___/12. | **3** |
| 2 | Fill in the blank: 3/8 = 9/___. | **24** |
| 3 | Fill in the blank: 6/14 = ___/7. | **3** |
| 4 | Fill in the blank: 7/9 = ___/27. | **21** |

## PART 2 · APPLY IT

1. **8/16** Each part is split in two, so multiply both numbers in 4/8 by 2: 4/8 = 8/16.
2. **21 boxes** Multiply the numerator and denominator by 3: 7/10 = 21/30.

## CHALLENGE

**The student multiplied the top number by 3 but the bottom number by 2. Multiply both by 2: 6/8 = 12/16.**

For blank problems, accept the missing number alone or the completed fraction. For the challenge, accept any explanation that identifies the different multipliers and gives 12/16.