LESSON MAKER PRO

Fraction Copy Power

See each fraction as equal unit-fraction copies.

GRADE 4 · 4.NF.B.4a

CCSS.Math.Content.4.NF.B.4a "Understand a fraction a / b as a multiple of 1/ b. For example, use a visual fraction model to represent 5/4 as the product 5 × (1/4), recording the conclusion by the equation 5/4 = 5 × (1/4)."

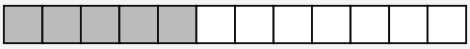
NAME _____ DATE _____

THE BIG IDEA

The denominator names the size of one equal part. The numerator tells how many copies of that unit fraction you have, so write the fraction as numerator × (1/denominator).

WORKED EXAMPLE

Look at the fraction model. Write the shaded fraction as a multiple of a unit fraction.

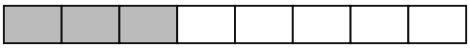


1. The bar is split into 12 equal parts, so one part is 1/12.
2. There are 5 shaded parts.
3. Write 5 copies of 1/12 as 5 × (1/12).

Answer: 5/12 = 5 × (1/12)

PRACTICE 6 problems

1 Look at the fraction model. Write the shaded fraction as a multiple of a unit fraction.



ANSWER _____

2 Look at the fraction model. Write the shaded fraction as a multiple of a unit fraction.



ANSWER _____

3 Complete the equation: 1/3 = ___ × (1/3)

ANSWER _____

4 Write 7/10 as a multiple of a unit fraction.

ANSWER _____

5 A strip is divided into 13 equal parts. Four parts are colored. Write the colored fraction as a multiple of a unit fraction.

ANSWER _____

6 Which equation is true? Write the letter and the equation. A. 6/11 = 11 × (1/6) B. 6/11 = 6 × (1/11)

ANSWER _____

APPLY IT Show your work

1 A video game reward bar has 15 equal spaces. Jalen fills 8 spaces by finishing quests. What fraction of the bar is filled? Write the fraction as a multiple of a unit fraction.

WORK SPACE

ANSWER _____

2 Priya has a bracelet with 14 equal spaces for beads. She puts beads in 9 spaces. Write the fraction of spaces with beads as a multiple of a unit fraction.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Noah writes 10/16 = 16 × (1/10). Explain Noah's error. Then write the correct equation.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Copy Power

GRADE 4 · 4.NF.B.4a

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Look at the fraction model. Write the shaded fraction as a multiple of a unit fraction.	**3/8 = 3 × (1/8)**
2	Look at the fraction model. Write the shaded fraction as a multiple of a unit fraction.	**2/9 = 2 × (1/9)**
3	Complete the equation: 1/3 = ___ × (1/3)	**1**
4	Write 7/10 as a multiple of a unit fraction.	**7/10 = 7 × (1/10)**
5	A strip is divided into 13 equal parts. Four parts are colored. Write the colored fraction as a multiple of a unit fraction.	**4/13 = 4 × (1/13)**
6	Which equation is true? Write the letter and the equation. A. 6/11 = 11 × (1/6) B. 6/11 = 6 × (1/11)	**B. 6/11 = 6 × (1/11)**

PART 2 · APPLY IT

1. **8/15 = 8 × (1/15)** One space is 1/15 of the bar. Eight filled spaces are 8 copies of 1/15.
2. **9/14 = 9 × (1/14)** Each space is 1/14 of the bracelet. Nine spaces make 9 copies of 1/14.

CHALLENGE

Noah switched the numerator and denominator. 10/16 = 10 × (1/16).

Accept equivalent wording that clearly states the correct number of copies of the unit fraction. In the challenge, students should identify that the numerator gives the number of copies and the denominator names the unit fraction.