LESSON MAKER PRO

Fraction Multiples

Multiply fractions to solve problems.

GRADE 4 · MT.4.NF.4

MT.4.NF.4 "Apply and extend previous understandings of multiplication to multiply a fraction by a whole number by: Understanding a fraction a/b as a multiple of 1/b and recording the conclusion by the equation a/b = a × 1/b..."

NAME _____ DATE _____

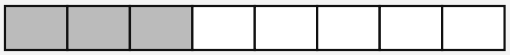
THE BIG IDEA

The top number of a fraction tells how many unit fractions you have. To multiply a fraction by a whole number, multiply the top number and keep the bottom number.

WORKED EXAMPLE

Find 4 × 3/8.

3/8



1. 3/8 = 3 × 1/8
2. 4 × 3/8 = (4 × 3) × 1/8
3. 12 × 1/8 = 12/8 = 1 1/2

Answer: 1 1/2

PRACTICE 4 problems

1 Fill in the blank: 7/10 = ___ × 1/10.

ANSWER _____

2 Find 3 × 2/7.

ANSWER _____

3 Find 4 × 5/9.

ANSWER _____

4 Find 6 × 1/4.

ANSWER _____

APPLY IT Show your work

1 At a community gathering on the Blackfeet Reservation, 5 tables each have 2/3 gallon of water. How many gallons is that?

WORK SPACE

ANSWER _____

2 At a school in Helena, 6 art projects each use 3/4 yard of ribbon. How many yards of ribbon do they use?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A class needs 4 kits with 5/6 pound of clay in each. It has 3 pounds of clay. How much more clay does it need? Show how you know.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Multiples

GRADE 4 · MT.4.NF.4

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Fill in the blank: 7/10 = ___ × 1/10.	**7**
2	Find 3 × 2/7.	**6/7**
3	Find 4 × 5/9.	**20/9**
4	Find 6 × 1/4.	**6/4**

PART 2 · APPLY IT

1. **3 1/3 gallons** Multiply 5 × 2/3 = 10/3, or 3 1/3 gallons.
2. **4 1/2 yards** Multiply 6 × 3/4 = 18/4, or 4 1/2 yards.

CHALLENGE

1/3 pound. The kits need 4 × 5/6 = 20/6 = 3 1/3 pounds, which is 1/3 pound more than 3 pounds.

Accept equivalent fractions or mixed numbers for products. In the challenge, the response must show both the total clay needed and the amount still needed.