LESSON MAKER PRO

Fraction Power Moves

Multiply and divide fractions and mixed numbers.

GRADE 6 · MA.6.NSO.2.2

MA.6.NSO.2.2 "Extend previous understanding of multiplication and division to compute products and quotients of positive fractions by positive fractions, including mixed numbers, with procedural fluency."

NAME _____ DATE _____

MULTIPLY OR DIVIDE

To multiply fractions, multiply the numerators and multiply the denominators. To divide by a fraction, multiply by its reciprocal. Change mixed numbers to improper fractions before you compute, then simplify your answer.

WORKED EXAMPLE

$2/11 \div 5/6$

1. Keep 2/11 and multiply by the reciprocal of 5/6.
2. 2/11 × 6/5 = 12/55.
3. 12/55 is already simplified.

Answer: 12/55

PRACTICE 6 problems

1 3/8 × 4/15

ANSWER _____

2 7/9 ÷ 14/27

ANSWER _____

3 1 2/3 × 3/5

ANSWER _____

4 2 1/4 ÷ 3/10

ANSWER _____

5 5/12 × 1 4/5

ANSWER _____

6 3 1/6 ÷ 1 7/12

ANSWER _____

APPLY IT Show your work

1 A robotics club has 3 3/4 meters of wire. Each mini robot needs 5/8 meter of wire. How many mini robots can the club make?

WORK SPACE

ANSWER _____

2 Jordan spends 2 1/4 hours editing a video. Jordan uses 4/9 of that time to add captions. How many hours does Jordan spend adding captions?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A club has 4 1/2 yards of ribbon. Each bow uses 3/8 yard of ribbon. The club gives 2/3 of the bows to new members. How many bows do new members receive?

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Power Moves

GRADE 6 · MA.6.NSO.2.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	3/8 × 4/15	**1/10**
2	7/9 ÷ 14/27	**1 1/2**
3	1 2/3 × 3/5	**1**
4	2 1/4 ÷ 3/10	**7 1/2**
5	5/12 × 1 4/5	**3/4**
6	3 1/6 ÷ 1 7/12	**2**

PART 2 · APPLY IT

1. **6 mini robots** Change 3 3/4 to 15/4. Compute 15/4 ÷ 5/8 = 15/4 × 8/5 = 6.
2. **1 hour** Change 2 1/4 to 9/4. Compute 9/4 × 4/9 = 1.

CHALLENGE

8 bows

Accept equivalent simplified fractions and improper fractions when they are mathematically correct. For mixed-number answers, accept either the mixed number or its equivalent improper fraction.