LESSON MAKER PRO

Fraction Product Power

Multiply fractions, mixed numbers, and values greater than 1.

GRADE 5 · MA.5.FR.2.2

MA.5.FR.2.2 "Extend previous understanding of multiplication to multiply a fraction by a fraction, including mixed numbers and fractions greater than 1, with procedural reliability."

NAME _____ DATE _____

MULTIPLY AND SIMPLIFY

Change each mixed number to an improper fraction before you multiply. Multiply the numerators, multiply the denominators, then simplify the product. If your answer is greater than 1, you may write it as a mixed number.

WORKED EXAMPLE

Find 2 3/4 x 5/6.

1. Change 2 3/4 to 11/4.
2. Multiply: 11/4 x 5/6 = 55/24.
3. Rename 55/24 as 2 7/24.

Answer: 2 7/24

PRACTICE 6 problems

1 Find 7/9 x 8/11.

ANSWER _____

2 Find 11/12 x 9/10.

ANSWER _____

3 Find 1 8/11 x 11/12.

ANSWER _____

4 Find 13/14 x 7/15.

ANSWER _____

5 Find 1 5/8 x 4/13.

ANSWER _____

6 Find 9/8 x 16/27.

ANSWER _____

APPLY IT Show your work

1 Maya has 7/8 pound of clay for making mini figures. She uses 11/12 of the clay. How many pounds of clay does she use?

WORK SPACE

ANSWER _____

2 A bike club rides 8/9 of a trail that is 1 7/8 miles long. How far does the club ride?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Find 1 8/11 x 11/12 x 9/10. Show how you simplify before or after multiplying.

_____

_____

ANSWER KEY

Fraction Product Power

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 7/9 x 8/11.	**56/99**
2	Find 11/12 x 9/10.	**33/40**
3	Find 1 8/11 x 11/12.	**1 7/12**
4	Find 13/14 x 7/15.	**13/30**
5	Find 1 5/8 x 4/13.	**1/2**
6	Find 9/8 x 16/27.	**2/3**

PART 2 · APPLY IT

1. **77/96 pound** Multiply 7/8 by 11/12. The product is 77/96, which cannot be simplified.
2. **1 2/3 miles** Change 1 7/8 to 15/8, then multiply 15/8 by 8/9. The product 15/9 simplifies to 5/3, or 1 2/3.

CHALLENGE

1 17/40

Accept equivalent fractions and mixed-number forms. Students should convert mixed numbers correctly and give products in simplest form.