LESSON MAKER PRO

Fraction Power Moves

Multiply fractions and divide with unit fractions.

GRADE 5 · 5.NF.B

CCSS.Math.Content.5.NF.B "Apply and extend previous understandings of multiplication and division to multiply and divide fractions."

NAME _____ DATE _____

THE BIG IDEA

To multiply fractions, multiply numerators and denominators, then simplify. To divide a whole number by a unit fraction, ask how many unit-fraction pieces fit in the whole. To divide a unit fraction by a whole number, split it into equal parts.

WORKED EXAMPLE

Find 7/13 x 11.

1. Multiply 7 by 11: 77.
2. Keep the denominator 13.
3. Write the product as 77/13.
4. 77/13 is already simplified.

Answer: 77/13

PRACTICE 6 problems

1 Find 2/5 x 6.

ANSWER _____

2 Find 1/8 ÷ 2.

ANSWER _____

3 Find 5 x 3/10.

ANSWER _____

4 Find 12 ÷ 1/3.

ANSWER _____

5 Find 3/8 x 5/6.

ANSWER _____

6 Find 15 ÷ 1/5.

ANSWER _____

APPLY IT Show your work

1 During a 3/5-hour game design club meeting, students spend 2/3 of the time planning their game. How many hours do they spend planning?

WORK SPACE

ANSWER _____

2 A streamer has 6 hours of recorded video. Each highlight clip is 1/4 hour long. How many highlight clips can the streamer make?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A runner completes 4/5 of a 2 1/2-mile training route. How far does the runner go? Explain why the answer is less than 2 1/2 miles.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Power Moves

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 2/5 x 6.	**12/5**
2	Find 1/8 ÷ 2.	**1/16**
3	Find 5 x 3/10.	**3/2**
4	Find 12 ÷ 1/3.	**36**
5	Find 3/8 x 5/6.	**5/16**
6	Find 15 ÷ 1/5.	**75**

PART 2 · APPLY IT

1. **2/5 hour** Multiply 3/5 x 2/3 = 6/15. Simplify 6/15 to 2/5.
2. **24 highlight clips** Find how many fourth-hour clips fit into 6 hours: 6 ÷ 1/4 = 24.

CHALLENGE

2 miles; 4/5 is less than 1, so multiplying by 4/5 makes 2 1/2 smaller.

Accept equivalent fractions and mixed-number forms when they are simplified correctly. For the challenge, accept any clear explanation that multiplying by a fraction less than 1 makes the product smaller.