LESSON MAKER PRO

Fraction Product Quest

Multiply fractions and mixed numbers in real situations.

GRADE 5 · 5.NF.B.6

CCSS.Math.Content.5.NF.B.6 "Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem."

NAME _____ DATE _____

MULTIPLY THE PARTS

To multiply fractions, multiply the numerators and multiply the denominators. Simplify the product when possible. Change a mixed number to an improper fraction before multiplying.

WORKED EXAMPLE

Find 5/6 x 2/7.

1. Multiply the numerators: 5 x 2 = 10.
2. Multiply the denominators: 6 x 7 = 42.
3. Simplify 10/42 by dividing by 2.
4. 10/42 = 5/21.

Answer: 5/21

PRACTICE 6 problems

1 Find 3/4 x 1/3.

ANSWER _____

2 Find 1/2 x 7/9.

ANSWER _____

3 Find 1 1/3 x 3/5.

ANSWER _____

4 Find 2 1/4 x 2/3. Write the answer as a mixed number.

ANSWER _____

5 Find 3 1/2 x 4/7.

ANSWER _____

6 Find 5/8 of 1 3/5.

ANSWER _____

APPLY IT Show your work

1 Jordan practices keyboard for 1 1/2 hours. He spends 2/3 of that time learning a new song. How many hours does he spend learning the song?

WORK SPACE

ANSWER _____

2 A drone club makes a scale track that is 3/5 as long as a 2 1/2-meter track. How long is the scale track?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A student makes a 1 1/2-hour video. The tutorial section is 2/3 of the video. The tutorial is split into 3 equal clips. How long is each clip? Explain with an equation.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Product Quest

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 3/4 x 1/3.	**1/4**
2	Find 1/2 x 7/9.	**7/18**
3	Find 1 1/3 x 3/5.	**4/5**
4	Find 2 1/4 x 2/3. Write the answer as a mixed number.	**1 1/2**
5	Find 3 1/2 x 4/7.	**2**
6	Find 5/8 of 1 3/5.	**1**

PART 2 · APPLY IT

1. **1 hour** Change 1 1/2 to 3/2, then multiply 3/2 x 2/3 = 1.
2. **1 1/2 meters** Change 2 1/2 to 5/2, then multiply 3/5 x 5/2 = 3/2 = 1 1/2.

CHALLENGE

1/3 hour; (1 1/2) x 2/3 x 1/3 = 1/3

Accept equivalent simplified forms, such as 3/2 for 1 1/2. For the challenge, accept a correct equation that shows the video length is multiplied by 2/3 and then divided into 3 equal parts.