LESSON MAKER PRO

Fraction Power Boost

Multiply fractions by whole numbers.

GRADE 4 · 4.NF.B.4

CCSS.Math.Content.4.NF.B.4 "Apply and extend previous understandings of multiplication to multiply a fraction by a whole number."

NAME _____ DATE _____

MULTIPLY IN STEPS

To multiply a fraction by a whole number, multiply the numerator by the whole number. Keep the denominator the same, then simplify if you can. Change an improper fraction to a mixed number when needed.

WORKED EXAMPLE

Find 3/8 x 4.

1. Write 4 as 4/1.
2. Multiply the numerators: 3 x 4 = 12.
3. Multiply the denominators: 8 x 1 = 8.
4. Simplify 12/8 to 1 1/2.

Answer: 1 1/2

PRACTICE 6 problems

1 Find 1/6 x 2.

ANSWER _____

2 Find 5/9 x 7.

ANSWER _____

3 Find 7/10 x 6.

ANSWER _____

4 Find 2/5 x 9.

ANSWER _____

5 Find 11/12 x 2.

ANSWER _____

6 Find 5/7 x 10.

ANSWER _____

APPLY IT Show your work

1 At a game design club, Nia uses 2/9 of a roll of stickers each day for 5 days. How many rolls of stickers does she use in all?

WORK SPACE

ANSWER _____

2 A wildlife video lasts 7/12 of an hour for each viewing session. A class watches it during 6 sessions. How many hours of video do they watch in all?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A robot moves 11/15 mile each time it completes a track. It completes the track 10 times. How many miles does the robot move? Show your multiplication and simplify your answer.

WORK SPACE AND ANSWER

ANSWER KEY

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 1/6 x 2.	**1/3**
2	Find 5/9 x 7.	**3 8/9**
3	Find 7/10 x 6.	**4 1/5**
4	Find 2/5 x 9.	**3 3/5**
5	Find 11/12 x 2.	**1 5/6**
6	Find 5/7 x 10.	**7 1/7**

PART 2 · APPLY IT

1. **1 1/9 rolls** Multiply 2/9 by 5 to get 10/9. Write 10/9 as 1 1/9.
2. **3 1/2 hours** Multiply 7/12 by 6 to get 42/12. Simplify 42/12 to 3 1/2.

CHALLENGE

7 1/3 miles

Accept equivalent fractions, such as 10/9 for 1 1/9, when the fraction is correct. Accept improper fractions or mixed numbers unless the student is specifically asked to simplify.