LESSON MAKER PRO

Fractions in Action

Find a fraction of a fraction or mixed number.

GRADE 5 · 5.NF.B.14

5.NF.B.14 "Model and solve real-world problems involving multiplication of fractions and mixed numbers using visual fraction models, drawings, or equations to represent the problem."

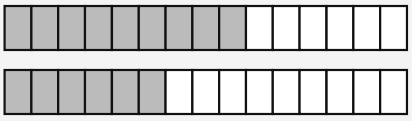
NAME _____ DATE _____

THE BIG IDEA

The word of can mean multiply. Multiply the numerators, multiply the denominators, then simplify. Change a mixed number to a fraction before multiplying.

WORKED EXAMPLE

Find 2/3 of 3/5 meter. Use the bars.



1. 3/5 = 9/15.
2. 2/3 of 9 shaded parts is 6 parts.
3. 6/15 = 2/5.

Answer: 2/5 meter

PRACTICE 4 problems

1 3/8 of 4/9 = ___

ANSWER _____

2 5/6 of 3/10 = ___

ANSWER _____

3 4/7 of 1 3/4 = ___

ANSWER _____

4 1 1/5 times 5/9 = ___

ANSWER _____

APPLY IT Show your work

1 A skate trail is 1 1/2 miles long. Maya skates 4/5 of it. How far does she skate? Draw a model or write an equation.

WORK SPACE

ANSWER _____

2 A gaming clip lasts 4/5 minute. Its intro takes 3/4 of that time. How long is the intro? Use the bar or write an equation.

4/5 minute clip 

ANSWER _____

CHALLENGE One step up

Lia has 2 1/2 yards of rope. She uses 3/10 of it, then uses 2/7 of what remains. How many yards does she use the second time? Show equations.

WORK SPACE AND ANSWER

ANSWER KEY

Fractions in Action

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	3/8 of 4/9 = ___	**1/6**
2	5/6 of 3/10 = ___	**1/4**
3	4/7 of 1 3/4 = ___	**1**
4	1 1/5 times 5/9 = ___	**2/3**

PART 2 · APPLY IT

1. **1 1/5 miles** 1 1/2 × 4/5 = 3/2 × 4/5 = 6/5 = 1 1/5 miles.
2. **3/5 minute** Three of the four shaded parts represent the intro. So 3/4 × 4/5 = 3/5 minute.

CHALLENGE

1/2 yard; 2 1/2 × 7/10 = 1 3/4 yards remain, and 1 3/4 × 2/7 = 1/2 yard.

Accept equivalent fractions and mixed numbers. For word problems, accept a correctly labeled model or equation.