LESSON MAKER PRO

Fraction Groups

Multiply unit fractions by whole numbers.

GRADE 4 · 4.NOS.E.13.b

4.NOS.E.13.b "Use understanding of multiplication as equal groups to multiply a unit fraction by whole number (e.g., interpret b × 1/d as b groups of 1/d)."

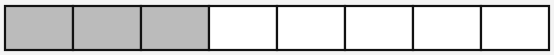
NAME _____ **DATE** _____

EQUAL GROUPS

A whole number times a unit fraction means that many equal groups of the fraction. Add the groups by keeping the denominator and counting the parts.

WORKED EXAMPLE

Find 3 x 1/8.



1. Make 3 groups of 1/8.
2. 1/8 + 1/8 + 1/8 = 3/8.

Answer: 3/8

PRACTICE 4 problems

1 Find 2 x 1/4.

ANSWER _____

2 Find 4 x 1/5.

ANSWER _____

3 Find 5 x 1/6.

ANSWER _____

4 Find 6 x 1/7.

ANSWER _____

APPLY IT Show your work

1 Each party badge needs 1/10 meter of ribbon. How much ribbon do 4 badges need?

WORK SPACE

ANSWER _____

2 Maya rides 5 laps on a bike track. Each lap is 1/12 mile. How far does she ride?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A robot takes 9 steps of 1/4 meter each. Does it travel more than 2 meters? Explain with an equation.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Groups

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 2 x 1/4.	**2/4 or 1/2**
2	Find 4 x 1/5.	**4/5**
3	Find 5 x 1/6.	**5/6**
4	Find 6 x 1/7.	**6/7**

PART 2 · APPLY IT

1. **4/10 meter or 2/5 meter** Multiply 4 x 1/10 to get 4/10 meter.
2. **5/12 mile** Multiply 5 x 1/12 to get 5/12 mile.

CHALLENGE

Yes. 9 x 1/4 = 9/4 = 2 1/4 meters, which is more than 2 meters.

Accept equivalent fractions in any answer. For the challenge, accept 9/4 meters with a correct comparison to 2 meters.