LESSON MAKER PRO

Fraction Times Fun

Multiply fractions and whole numbers.

GRADE 4 · MA.4.FR.2.4

MA.4.FR.2.4 "Extend previous understanding of multiplication to explore the multiplication of a fraction by a whole number or a whole number by a fraction."

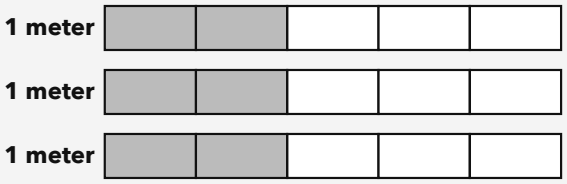
NAME _____ DATE _____

MULTIPLY A FRACTION

A whole number times a fraction counts equal fractional groups. Three groups of 2/5 contain six fifths: 3 × 2/5 = 6/5. Fraction multiplication can also mean taking a fractional part of a quantity.

WORKED EXAMPLE

Three ribbons each measure 2/5 meter. How many meters altogether?



1. Each same-size bar is one meter; its shaded part is 2/5 meter.
2. Add the three shaded lengths: 2/5 + 2/5 + 2/5 = 6/5.
3. Five fifths make one meter, with one fifth left.

Answer: 6/5 = 1 1/5 meters

PRACTICE 6 problems

1 3 x 1/5 = ___

ANSWER _____

2 2/3 x 6 = ___

ANSWER _____

3 5 x 3/8 = ___

ANSWER _____

4 7/10 x 2 = ___

ANSWER _____

5 9 x 2/7 = ___

ANSWER _____

6 3/4 x 12 = ___

ANSWER _____

APPLY IT Show your work

1 A video game club earns 2/3 of a point for each of 6 completed quests. How many points does the club earn?

WORK SPACE

ANSWER

2 Jordan rides 5/8 mile on each lap around a park. Jordan rides 4 laps. How far does Jordan ride? Draw equal fraction-length models, label one whole, and show how the groups combine.

CHALLENGE One step up

A robot travels 5/6 meter in each move. It makes 9 moves. How far does it travel? Show how you rename your answer as a mixed number.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Times Fun

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	3 x 1/5 = ___	**3/5**
2	2/3 x 6 = ___	**4**
3	5 x 3/8 = ___	**1 7/8**
4	7/10 x 2 = ___	**1 2/5**
5	9 x 2/7 = ___	**2 4/7**
6	3/4 x 12 = ___	**9**

PART 2 · APPLY IT

1. **4 points** Multiply 6 x 2/3 = 12/3. The club earns 4 points.
2. **Four groups of 5/8 mile total 20/8 = 2 1/2 miles. Models must use the same whole-mile scale and show four shaded lengths of five eighths.** Multiply 4 x 5/8 = 20/8. Rename 20/8 as 2 1/2.

CHALLENGE

7 1/2 meters; 9 x 5/6 = 45/6 = 7 1/2.

Accept equivalent fractions and mixed numbers when they are correctly simplified or correctly renamed. For whole-number products, accept the whole number or an equivalent fraction form.