LESSON MAKER PRO

# Fraction Power-Up

*Multiply a fraction by a whole number.*

**GRADE 5 · 5.NR.3.4**

**5.NR.3.4** "Model and solve problems involving multiplication of a fraction and a whole number."

NAME _____ DATE _____

## MULTIPLY THE PARTS

To multiply a whole number by a fraction, multiply the whole number and the numerator. Keep the denominator the same, then simplify the fraction if you can.

## WORKED EXAMPLE

Find 11 x 3/8.

1. 11 x 3/8 = (11 x 3)/8
2. 11 x 3 = 33, so the product is 33/8.
3. 33/8 = 4 1/8.

**Answer: 4 1/8**

## PRACTICE 6 problems

**1** The model shows 4 x 2/9. Write the product in simplest form.




**ANSWER** _____

**2** Find 6 x 5/12. Write the product in simplest form.

**ANSWER** _____

**3** Find 7 x 4/5. Write the product in simplest form.

**ANSWER** _____

**4** Find 9 x 2/7. Write the product in simplest form.

**ANSWER** _____

**5** Find 5 x 7/10. Write the product in simplest form.

**ANSWER** _____

**6** Find 12 x 5/6. Write the product in simplest form.

**ANSWER** _____

## APPLY IT Show your work

**1** Jalen practices guitar for 5/6 hour each day for 6 days. How many hours does Jalen practice altogether?

WORK SPACE

**ANSWER** _____

**2** Seven students each use 4/5 cup of soil to plant a small class garden pot. How many cups of soil do they use altogether?

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

A game club packs 9 prize bags with 5/12 pound of candy in each bag. Then the club shares all the candy equally among 6 winners. How many pounds of candy does each winner get? Show your steps.

WORK SPACE AND ANSWER

**ANSWER KEY**

# Fraction Power-Up

**GRADE 5 · 5.NR.3.4**

## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | The model shows 4 x 2/9. Write the product in simplest form. | **8/9** |
| 2 | Find 6 x 5/12. Write the product in simplest form. | **2 1/2** |
| 3 | Find 7 x 4/5. Write the product in simplest form. | **5 3/5** |
| 4 | Find 9 x 2/7. Write the product in simplest form. | **2 4/7** |
| 5 | Find 5 x 7/10. Write the product in simplest form. | **3 1/2** |
| 6 | Find 12 x 5/6. Write the product in simplest form. | **10** |

## PART 2 · APPLY IT

1. **5 hours** Multiply 6 x 5/6 = 30/6. Simplify 30/6 to 5.
2. **5 3/5 cups** Multiply 7 x 4/5 = 28/5. Rename 28/5 as 5 3/5.

## CHALLENGE

**5/8 pound**

Accept equivalent simplified forms, such as 5/2 for 2 1/2 and 7/2 for 3 1/2. For the challenge, students should find 9 x 5/12 = 15/4 pounds, then divide by 6 to get 5/8 pound.