



# Multiplying Fractions by Whole Numbers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 4

## Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: To find  $5 \times 1/2$ , we multiply 5 by 2 and write the answer as  $10/2$ .

Rewrite: \_\_\_\_\_

2. Fix the sentence: The product  $3 \times 2/5$  is  $5/2$  because we swap the numerator and the whole number.

Rewrite: \_\_\_\_\_

3. Fix the sentence: When  $6 \times 1/8$  is computed, the answer  $6/8$  cannot be simplified at all.

Rewrite: \_\_\_\_\_

## Part B: Fill in the Blank

Write the missing word or number on each line.

- The product  $5 \times 1/2$  is \_\_\_\_\_ when written as a single fraction.
- Computing  $3 \times 2/5$  by multiplying numerators gives \_\_\_\_\_.
- The product  $6 \times 1/8$  equals \_\_\_\_\_ before simplifying.
- Two groups of  $3/4$  can be written as  $2 \times 3/4 =$  \_\_\_\_\_.

## Part C: Short Answer

Answer each question in one or two complete sentences.

1. A Grade 4 student says  $3 \times 2/5 = 6/10$ . Explain the mistake and give the correct product.

\_\_\_\_\_  
\_\_\_\_\_

2. Find  $6 \times 1/8$  and write the answer in simplest form. Show each step a Grade 4 learner uses.

\_\_\_\_\_  
\_\_\_\_\_

## Answer Key · Multiplying Fractions by Whole Numbers · Grade: Grade 4

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### Part A: Fix the Sentence

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Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: To find  $5 \times 1/2$ , we multiply 5 by 2 and write the answer as  $10/2$ .

Rewrite: **To find  $5 \times 1/2$ , we multiply 5 by the numerator 1 and keep the denominator, getting  $5/2$ .**

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2. Fix the sentence: The product  $3 \times 2/5$  is  $5/2$  because we swap the numerator and the whole number.

Rewrite: **The product  $3 \times 2/5$  is  $6/5$  because we multiply  $3 \times 2$  and keep the denominator 5.**

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3. Fix the sentence: When  $6 \times 1/8$  is computed, the answer  $6/8$  cannot be simplified at all.

Rewrite: **When  $6 \times 1/8$  is computed, the answer  $6/8$  simplifies to  $3/4$  by dividing top and bottom by 2.**

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### Part B: Fill in the Blank

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Write the missing word or number on each line.

- The product  $5 \times 1/2$  is  $5/2$  when written as a single fraction.
- Computing  $3 \times 2/5$  by multiplying numerators gives  $6/5$ .
- The product  $6 \times 1/8$  equals  $6/8$  before simplifying.
- Two groups of  $3/4$  can be written as  $2 \times 3/4 =$   $6/4$ .

### Part C: Short Answer

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Answer each question in one or two complete sentences.

1. A Grade 4 student says  $3 \times 2/5 = 6/10$ . Explain the mistake and give the correct product.

*The student multiplied both the numerator and the denominator by 3, but only the numerator should be multiplied. The denominator names the size of each part, and that size does not change when we add copies of  $2/5$ . The correct work is  $3 \times 2/5 = (3 \times 2)/5 = 6/5$ . As a check,  $2/5 + 2/5 + 2/5 = 6/5$ , which matches.*

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2. Find  $6 \times 1/8$  and write the answer in simplest form. Show each step a Grade 4 learner uses.

*First multiply:  $6 \times 1/8 = 6/8$ . Then look for a common factor of 6 and 8. Both share a factor of 2. Divide top and bottom by 2:  $6 \div 2 = 3$  and  $8 \div 2 = 4$ . So  $6/8$  simplifies to  $3/4$ . Check:  $1/8 + 1/8 + 1/8 +$*

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