



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: $4 \times \frac{1}{3}$ equals $\frac{4}{12}$ because we multiply both numerator and denominator by 4.

Rewrite: _____

2. Fix the sentence: Three times one fifth is one fifteenth, written as $\frac{1}{15}$ in simplest form.

Rewrite: _____

3. Fix the sentence: When we write $5 \times \frac{1}{2}$, the answer cannot be a fraction greater than one whole.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

1. Using repeated addition, $4 \times \frac{1}{3} = \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} =$ _____ .

2. The product $5 \times \frac{1}{2}$ written as a fraction is _____ .

3. Six copies of the unit fraction $\frac{1}{8}$ give the product _____ .

4. Three groups of $\frac{2}{5}$ can be written as $3 \times \frac{2}{5} =$ _____ .

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Show how $4 \times \frac{1}{3}$ equals $\frac{4}{3}$ using repeated addition. Write each step a Grade 4 student would write.

2. Explain in your own words why $6 \times \frac{1}{8}$ is written as $\frac{6}{8}$ and not as $\frac{1}{48}$.

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

Part A: Fix the Sentence

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

1. Fix the sentence: $4 \times 1/3$ equals $4/12$ because we multiply both numerator and denominator by 4.

Rewrite: $4 \times 1/3$ equals $4/3$ because we add $1/3$ four times: $1/3 + 1/3 + 1/3 + 1/3 = 4/3$.

2. Fix the sentence: Three times one fifth is one fifteenth, written as $1/15$ in simplest form.

Rewrite: Three times one fifth is three fifths, written as $3/5$ in simplest form.

3. Fix the sentence: When we write $5 \times 1/2$, the answer cannot be a fraction greater than one whole.

Rewrite: When we write $5 \times 1/2$, the answer is $5/2$, which is a fraction greater than one whole.

Part B: Fill in the Blank

Write the missing word or number on each line.

1. Using repeated addition, $4 \times 1/3 = 1/3 + 1/3 + 1/3 + 1/3 = \underline{4/3}$.
2. The product $5 \times 1/2$ written as a fraction is $\underline{5/2}$.
3. Six copies of the unit fraction $1/8$ give the product $\underline{6/8}$.
4. Three groups of $2/5$ can be written as $3 \times 2/5 = \underline{6/5}$.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Show how $4 \times 1/3$ equals $4/3$ using repeated addition. Write each step a Grade 4 student would write.

Start with $1/3 + 1/3 + 1/3 + 1/3$. Each piece is $1/3$, and there are four pieces, so the total is $4/3$. The denominator 3 stays the same because the size of the parts does not change. The numerator becomes 4 because we have four parts. Therefore $4 \times 1/3 = 4/3$.

2. Explain in your own words why $6 \times 1/8$ is written as $6/8$ and not as $1/48$.

When we multiply $6 \times 1/8$, we are adding $1/8$ six times. The denominator 8 names the size of each piece, and that size does not change. Only the count of pieces changes, so the numerator becomes 6. The product is $6/8$. Multiplying both numbers by 6 would give $6/48$, which is wrong because it shrinks