



Order of Operations Introduction

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: $16 / 2 * 4 = 2$ because $2 * 4 = 8$ and $16 / 8 = 2$.

Rewrite: _____

2. Fix the sentence: $((3+2)*5)$ is solved by doing $2*5$ first, getting $3+10=13$.

Rewrite: _____

3. Fix the sentence: I solved $30 / 5 * 2$ as $30 / 10$ because multiplication should be done before division.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

- $((9-3)*2)$ equals _____ after solving the inner parentheses.
- $40 / 4 * 5 =$ _____ when computed in correct order.
- In $14 / 7 * 2$, the first step is to _____ because it appears first.
- $((8+2)/5)$ equals _____ after using parentheses correctly.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Explain how to evaluate $((12-2)*3)$ step by step.

2. Why does $36 / 9 * 2 = 8$ instead of 2?

Part A: Fix the Sentence

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

1. Fix the sentence: $16 / 2 * 4 = 2$ because $2 * 4 = 8$ and $16 / 8 = 2$.

Rewrite: $16 / 2 * 4 = 32$: divide first to get 8, then multiply by 4.

2. Fix the sentence: $((3+2)*5)$ is solved by doing $2*5$ first, getting $3+10=13$.

Rewrite: $(3+2)*5$ is solved by doing $3+2$ first inside parens, getting $5*5=25$.

3. Fix the sentence: I solved $30 / 5 * 2$ as $30 / 10$ because multiplication should be done before division.

Rewrite: I solved $30 / 5 * 2$ left to right: $30 / 5 = 6$, then $6 * 2 = 12$.

Part B: Fill in the Blank

Write the missing word or number on each line.

- $(9-3)*2$ equals 12 after solving the inner parentheses.
- $40 / 4 * 5 =$ 50 when computed in correct order.
- In $14 / 7 * 2$, the first step is to divide because it appears first.
- $((8+2)/5)$ equals 2 after using parentheses correctly.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Explain how to evaluate $((12-2)*3)$ step by step.

Solve inside parens first: $12-2=10$. Then multiply: $10*3=30$. Innermost parens always come before outside operations.

2. Why does $36 / 9 * 2 = 8$ instead of 2?

Because division and multiplication tie in rank, you go left to right: $36 / 9 = 4$, then $4 * 2 = 8$.
