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: *For 4 + 2 x 3, you add first to get 6 x 3 = 18.*

   Rewrite: _____

2. Fix the sentence: *10 - 2 x 4 equals 8 x 4 = 32 because we work left to right.*

   Rewrite: _____

3. Fix the sentence: *For 8 + 6 / 2, you add 8 + 6 = 14, then divide by 2 to get 7.*

   Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

1. In 6 + 4 x 2, you should multiply _____ before adding.
2. Evaluate: 5 + 2 x 3 = _____
3. Evaluate: 12 - 8 / 4 = _____
4. The letters PEMDAS are a _____ to remember the order of operations.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Why must we follow the order of operations when evaluating expressions?

   _____

   _____

2. What does PEMDAS stand for, and why is it useful?

   _____

   _____

Part A: Fix the Sentence

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

1. Fix the sentence: *For 4 + 2 x 3, you add first to get 6 x 3 = 18.*

   Rewrite: For 4 + 2 x 3, multiply first: 2 x 3 = 6, then 4 + 6 = 10.

2. Fix the sentence: *10 - 2 x 4 equals 8 x 4 = 32 because we work left to right.*

   Rewrite: 10 - 2 x 4 equals 10 - 8 = 2 because multiplication comes before subtraction.

3. Fix the sentence: *For 8 + 6 / 2, you add 8 + 6 = 14, then divide by 2 to get 7.*

   Rewrite: For 8 + 6 / 2, divide first: 6 / 2 = 3, then 8 + 3 = 11.

Part B: Fill in the Blank

Write the missing word or number on each line.

1. In 6 + 4 x 2, you should multiply **first** before adding.
2. Evaluate: 5 + 2 x 3 = **11**
3. Evaluate: 12 - 8 / 4 = **10**
4. The letters PEMDAS are a **mnemonic** to remember the order of operations.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. Why must we follow the order of operations when evaluating expressions?

   > *We follow the order so everyone gets the same correct answer when evaluating an expression.*

2. What does PEMDAS stand for, and why is it useful?

   > *PEMDAS stands for Parentheses, Exponents, Multiplication, Division, Addition, Subtraction. It helps remember the order.*