



# Pemdas Worksheet With Answers

Name _____	Date _____	
<b>ORDER OF OPERATIONS SHEET 5:2</b>		
Make sure you work out the operations in the right order!		
1) $4 \times 3 + 2 =$	11) $2 + 3 \times 1 =$	21) $12 - 3 \times 2 =$
2) $4 + 3 \times 2 =$	12) $5 \times 4 - 2 =$	22) $10 \div 2 + 3 =$
3) $2 \times 5 + 1 =$	13) $12 - 3 \times 4 =$	23) $5 \times 6 + 8 =$
4) $2 + 5 \times 1 =$	14) $3 \times 5 - 4 =$	24) $9 - 3 \times 5 =$
5) $3 \times 2 + 3 =$	15) $8 - 3 \times 2 =$	25) $16 \div 2 + 6 =$
6) $3 + 2 \times 3 =$	16) $4 + 3 \times 5 =$	26) $3 \times 4 - 8 =$
7) $2 \times 3 + 4 =$	17) $8 - 6 \times 0 =$	27) $7 - 5 \times 2 =$
8) $2 + 3 \times 4 =$	18) $2 \times 9 + 4 =$	28) $9 + 7 - 4 =$
9) $7 - 2 \times 3 =$	19) $6 - 2 \times 7 =$	29) $7 - 10 \div 2 =$
10) $7 \times 2 - 3 =$	20) $6 \times 4 - 9 =$	30) $8 \times 5 - 7 =$

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**Pemdas worksheet with answers** is a valuable resource for students and educators alike, aimed at reinforcing the order of operations in mathematics. The acronym PEMDAS stands for Parentheses, Exponents, Multiplication and Division (from left to right), Addition and Subtraction (from left to right). Understanding this order is crucial for solving mathematical expressions correctly. This article will delve into the significance of PEMDAS, provide examples, and present a worksheet along with answers to help learners practice these essential skills.

## The Importance of PEMDAS in Mathematics

The order of operations is a fundamental concept in mathematics that ensures calculations are performed correctly. Without a clear structure, different interpretations of the same

expression could lead to vastly different results. Here are several reasons why understanding PEMDAS is essential:

- **Consistency:** Using a standard order of operations ensures that everyone arrives at the same answer for a given mathematical expression.
- **Problem-solving:** A firm grasp of PEMDAS enhances problem-solving skills by allowing individuals to tackle complex mathematical expressions confidently.
- **Foundation for Higher Mathematics:** Mastering PEMDAS is crucial for success in more advanced topics, including algebra, calculus, and beyond.
- **Real-life Applications:** Understanding the order of operations is necessary for everyday tasks that involve calculations, such as budgeting, cooking, and construction.

## Breaking Down PEMDAS

To fully understand PEMDAS, let's break down each component of the acronym:

### 1. Parentheses

Parentheses are used to indicate which operations should be performed first. Any calculations within parentheses should be completed before moving on to other operations. For example, in the expression  $(3 + (2 \times 5))$ , you would first calculate  $(2 \times 5)$  before adding 3.

### 2. Exponents

Exponents indicate how many times a number is multiplied by itself. In the expression  $(2^3 + 4)$ , the exponent  $(2^3)$  (which equals 8) should be calculated before performing the addition.

### 3. Multiplication and Division

These operations are performed from left to right. If an expression contains both multiplication and division, the order in which they appear determines the sequence. For example, in the expression  $(6 \div 2 \times 3)$ , you would divide 6 by 2 first, resulting in 3, and then multiply by 3, yielding 9.

## 4. Addition and Subtraction

Like multiplication and division, addition and subtraction are performed from left to right. In the expression  $(5 + 3 - 2)$ , you would first add 5 and 3 to get 8, and then subtract 2 to arrive at 6.

## Creating a PEMDAS Worksheet

To reinforce the understanding of the order of operations, a PEMDAS worksheet can be an effective tool. Below is a sample worksheet that includes various expressions of increasing complexity. Each expression requires the application of the PEMDAS rule to solve.

### Worksheet: Solve the Following Expressions

- $(8 + 2 \times 5)$
- $((3 + 5) \times 2)$
- $(6 + (4^2 - 10))$
- $(12 \div 4 + 3 \times 2)$
- $((5 + 3) \times (2^2 - 3))$
- $(7 + 2 \times (6 - 4) + 1)$
- $((8 - 3) \times (5 + 3) - 4^2)$
- $(9 - (3 + 1) \times 2 + 5^2)$
- $(10 + 4 \div 2 \times (3 + 1))$
- $((2 + 3) \times (4 - 2) + 6)$

## Answers to the PEMDAS Worksheet

Now that you have completed the worksheet, let's review the answers step-by-step.

### Answers and Explanations

- $(8 + 2 \times 5)$   
-  $(= 8 + 10)$   
-  $(= 18)$
- $((3 + 5) \times 2)$   
-  $(= 8 \times 2)$   
-  $(= 16)$
- $(6 + (4^2 - 10))$   
-  $(= 6 + (16 - 10))$   
-  $(= 6 + 6)$   
-  $(= 12)$

4.  $(12 \div 4 + 3 \times 2)$

-  $(= 3 + 6)$

-  $(= 9)$

5.  $((5 + 3) \times (2^2 - 3))$

-  $(= 8 \times (4 - 3))$

-  $(= 8 \times 1)$

-  $(= 8)$

6.  $(7 + 2 \times (6 - 4) + 1)$

-  $(= 7 + 2 \times 2 + 1)$

-  $(= 7 + 4 + 1)$

-  $(= 12)$

7.  $((8 - 3) \times (5 + 3) - 4^2)$

-  $(= 5 \times 8 - 16)$

-  $(= 40 - 16)$

-  $(= 24)$

8.  $(9 - (3 + 1) \times 2 + 5^2)$

-  $(= 9 - 4 \times 2 + 25)$

-  $(= 9 - 8 + 25)$

-  $(= 26)$

9.  $(10 + 4 \div 2 \times (3 + 1))$

-  $(= 10 + 2 \times 4)$

-  $(= 10 + 8)$

-  $(= 18)$

10.  $((2 + 3) \times (4 - 2) + 6)$

-  $(= 5 \times 2 + 6)$

-  $(= 10 + 6)$

-  $(= 16)$

## Conclusion

The PEMDAS worksheet with answers is an essential tool for mastering the order of operations in mathematics. By practicing these concepts, students can enhance their problem-solving abilities and ensure they approach mathematical expressions correctly. Understanding and applying PEMDAS is not only vital for academic success but also for everyday problem-solving tasks. With continued practice and reinforcement, learners can solidify their understanding of this crucial mathematical principle.

## Frequently Asked Questions

## **What is PEMDAS?**

PEMDAS is an acronym that stands for Parentheses, Exponents, Multiplication and Division (from left to right), Addition and Subtraction (from left to right). It is a rule for determining the order of operations in mathematical expressions.

## **Why is a PEMDAS worksheet useful?**

A PEMDAS worksheet is useful for practicing and reinforcing the order of operations, helping students understand how to correctly solve mathematical expressions by following the proper sequence.

## **What types of problems can be found on a PEMDAS worksheet?**

A PEMDAS worksheet typically includes problems that involve various operations like addition, subtraction, multiplication, division, exponents, and parentheses, requiring students to apply the order of operations to find the correct answer.

## **How can I create a PEMDAS worksheet?**

You can create a PEMDAS worksheet by writing a series of mathematical expressions that include different operations and parentheses. Make sure to include a mix of simple and complex problems to challenge the learners.

## **Are there free resources available for PEMDAS worksheets?**

Yes, there are many free resources available online where you can find printable PEMDAS worksheets, including educational websites, teacher resource sites, and math practice platforms.

## **What is an example of a PEMDAS problem?**

An example of a PEMDAS problem is:  $3 + 6 \times (5 + 4) \div 3 - 7$ . The correct answer is 3, following the order of operations.

## **How do I check my answers on a PEMDAS worksheet?**

You can check your answers on a PEMDAS worksheet by reviewing the order of operations you applied and verifying your calculations, or by using an answer key if one is provided.

## **What should students focus on when completing a PEMDAS worksheet?**

Students should focus on understanding the hierarchy of operations, carefully applying each step, and double-checking their work to ensure accuracy.

# Can PEMDAS worksheets help improve math skills?

Yes, practicing with PEMDAS worksheets can significantly improve students' math skills, especially their ability to solve complex problems accurately and efficiently.

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