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PEMDAS WORKSHEET-III

1) Which of the following expressions is equal to 1?

- a) $2 + 2 \div 2 \times 2$
- b) $2 + (2 \div 2) \times 2$
- c) $(2 + 2) \div 2 \times 2$
- d) $(2 + 2) \div (2 \times 2)$

2) Match the following columns:

Expression	Result
1. $10^2 \div (5^2 - 5)$	a. 6
2. $3^2 \times (4^2 - 10)$	b. 5
3. $(8^2 - 4^2) \div 2^3$	c. 54

3) Find the missing number in the following equation:

$$\square + 8 \times 6 - 12 = 50$$

4) A certain number is multiplied by 7, and 4 is taken from the product. Finally, the difference is divided by 9, resulting in 5. Find the initial number.



5) Fill in the blanks using digits 3, 2, 4, and 6 to make a total of 5.

$$\underline{\quad} \times (\underline{\quad} \div \underline{\quad}) - \underline{\quad}$$

6) Make a total of 2 as the result of following expression using the digits 2, 3, 4, and 7.

$$_{}^2 \times (_{}^2 - _{}) \div _{}$$

7) Evaluate:

$$36 - 2(20 + 12 \div 4 \times 3 - 2 \times 2) + 10$$

8) What is the last step in simplifying the expression below?

$$4 + 8 \times (6 + 2) \div 4 - 2$$

- a) Addition
- b) Multiplication
- c) Subtraction
- d) Division

9) Choose the correct order of operations.

- a) Multiply and Divide from right to left.
- b) Divide and Multiply from right to left.
- c) Multiply and Divide from left to right.

10) Jenna bought 57 books for her students. She distributed one-third books in one class, while had to buy twice the remaining books more to distribute in the other class. How many books in total did Jenna buy?



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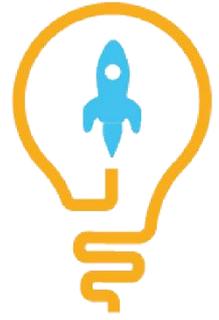
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	d) $(2 + 2) \div (2 \times 2)$
2)	1--b; 2--c; 3--a
3)	14
4)	7
5)	3, 6, 2, 4
6)	2, 3, 7, 4
7)	-4
8)	c) Subtraction
9)	c) Multiply and Divide from left to right
10)	133 books

FUN FACT

1. PEMDAS is actually the abbreviated form of parentheses, exponents, multiplication, division, addition, and subtraction!
2. An easy way to remember the order of PEMDAS is "Please Excuse My Dear Aunt Sally".
3. Many mnemonics following order of operations are used along with PEMDAS worldwide like RODMAS BEDMAS and

