

CHAPTER-2 | ARITHMETIC EXPRESSIONS

QUIZ
PART-23

1. Which expression is equal to $83 - 37 - 12$?

- A. $84 - 38 - 12$
 B. $84 - (37 + 12)$
 C. $83 - 38 - 13$
 D. All of these (A)

Explanation: Increasing both 83 and 37 by 1 keeps the value unchanged, so the expression remains equal.

2. Which expression is equal to $83 - 37 - 12$?

- A. $84 - (37 + 12)$
 B. $83 - 38 - 13$
 C. $37 - 83 - 12$
 D. $83 + 37 - 12$ (A)

Explanation: Since $84 - (37 + 12) = 84 - 37 - 12$, it matches the original structure and value.

3. Which expression is equal to $83 - 37 - 12$?

- A. $83 - 38 - 13$
 B. $-37 + 83 - 12$
 C. $83 + 37 - 12$
 D. $37 + 83 - 12$ (B)

Explanation: Reordering addition and subtraction terms as $-37 + 83 - 12$ does not change the value.

4. Which one is not equal to $83 - 37 - 12$?

- A. $84 - 38 - 12$
 B. $84 - (37 + 12)$
 C. $-37 + 83 - 12$
 D. $83 - 38 - 13$ (D)

Explanation: Subtracting 38 and 13 makes the total subtraction 51 instead of 49, so the value changes.

5. Which expression is equal to $93 + 37 \times 44 + 76$?

- A. $37 + 93 \times 44 + 76$
 B. $93 + 37 \times 76 + 44$
 C. $(93 + 37) \times (44 + 76)$
 D. $37 \times 44 + 93 + 76$ (D)

Explanation: Only the order of terms changes. The multiplication term stays the same, so the value is unchanged.

6. Why is $37 \times 44 + 93 + 76$ equal to $93 + 37 \times 44 + 76$?

- A. Because brackets are removed
 B. Because order of addition can change
 C. Because multiplication becomes addition
 D. Because $44 = 76$ (B)

Explanation: The order of added terms can be changed without changing the value.

7. Which one is not equal to $93 + 37 \times 44 + 76$?

- A. $37 \times 44 + 93 + 76$
 B. $93 + 37 \times 76 + 44$
 C. $93 + 76 + 37 \times 44$
 D. $76 + 93 + 37 \times 44$ (B)

Explanation: The multiplication changes from 37×44 to 37×76 , so the value changes.

8. In the expression $93 + 37 \times 44 + 76$, which operation is done first?

- A. Addition
 B. Subtraction
 C. Multiplication
 D. Brackets (C)

Explanation: By order of operations, multiplication is done before addition.

9. Question 6 asks students to create how many expressions with the same value?

- A. 5
 B. 8
 C. 10
 D. 12 (C)

Explanation: The instruction on page 5 says to create ten different expressions having the chosen value.

10. What is the main idea used in Question 5?

- A. Solve by full calculation only
 B. Check equality without computation
 C. Use decimals only
 D. Draw figures (B)

Explanation: The question clearly says to identify equal expressions without computation by rewriting terms or removing brackets.