

## CHAPTER-2 | ARITHMETIC EXPRESSIONS

QUIZ  
PART-13

1. Which expression has the same value as  $(6 + 10) - 2$ ?

- A.  $6 + (10 - 2)$   
 B.  $(6 - 10) + 2$   
 C.  $6 - (10 - 2)$   
 D.  $(6 + 10) + 2$  (A)

**Explanation:**  $(6 + 10) - 2 = 16 - 2 = 14$  and  $6 + (10 - 2) = 6 + 8 = 14$ .

2. Value of  $(6 + 10) - 2$  is

- A. 12  
 B. 14  
 C. 16  
 D. 18 (B)

**Explanation:** First add inside the bracket:  $6 + 10 = 16$ . Then subtract 2.

3. Value of  $6 + (10 - 2)$  is

- A. 12  
 B. 14  
 C. 16  
 D. 18 (B)

**Explanation:** First solve the bracket:  $10 - 2 = 8$ . Then add 6.

4. Which statement is true for  $16 - (8 - 3)$  and  $(16 - 8) - 3$ ?

- A. They are always equal  
 B. They have the same terms and same value  
 C. They have different values  
 D. Both are 11 (C)

**Explanation:**  $16 - (8 - 3) = 16 - 5 = 11$ , but  $(16 - 8) - 3 = 8 - 3 = 5$ .

5. Value of  $16 - (8 - 3)$  is

- A. 5  
 B. 8  
 C. 11  
 D. 13 (C)

**Explanation:** First solve the bracket:  $8 - 3 = 5$ . Then  $16 - 5 = 11$ .

6. Value of  $(16 - 8) - 3$  is

- A. 3  
 B. 5  
 C. 8  
 D. 11 (B)

**Explanation:** First  $16 - 8 = 8$ , then  $8 - 3 = 5$ .

7. Which expression has the same value as  $27 - (18 + 4)$ ?

- A.  $27 + (18 + 4)$   
 B.  $27 - (18 - 4)$   
 C.  $27 + (-18 - 4)$   
 D.  $27 + (-18 + 4)$  (C)

**Explanation:** Subtracting  $18 + 4$  is the same as adding  $-18$  and  $-4$ .

8. Value of  $27 - (18 + 4)$  is

- A. 5  
 B. 9  
 C. 13  
 D. 41 (A)

**Explanation:**  $18 + 4 = 22$ , and  $27 - 22 = 5$ .

9. Which pair has the same value?

- A.  $319 + 537$  and  $537 - 319$   
 B.  $319 + 537$  and  $-537 + 319$   
 C.  $319 - 537$  and  $-537 + 319$   
 D.  $319 - 537$  and  $319 + 537$  (C)

**Explanation:**  $319 - 537$  is the same as  $319 + (-537)$ , which is written as  $-537 + 319$ .

10. Which expression is equal to  $(87 - 46) + 109$ ?

- A.  $87 - (46 + 109)$   
 B.  $87 + 46 - 109$   
 C.  $87 - 46 + 109$   
 D.  $87 + (46 - 109)$  (C)

**Explanation:** Brackets do not change the value here because subtraction is done first, then 109 is added.