

CHAPTER-2 | ARITHMETIC EXPRESSIONS

QUIZ
PART-22

1. Compare: $83 \times 42 - 18$ ____ $83 \times 40 - 18$

- A. <
B. >
C. =
D. Cannot be determined (B)

Explanation: Since 42 is greater than 40, 83×42 is greater than 83×40 . Subtracting 18 from both keeps the left side greater.

2. Compare: $145 - 17 \times 8$ ____ $145 - 17 \times 6$

- A. <
B. >
C. =
D. Cannot be determined (A)

Explanation: 17×8 is greater than 17×6 . Subtracting the bigger product from 145 gives a smaller value.

3. Compare: $23 \times 48 - 35$ ____ $23 \times (48 - 35)$

- A. <
B. >
C. =
D. Both are zero (B)

Explanation: Left side is $23 \times 48 - 35$, while right side is 23×13 . These are not the same operation. The left side is much larger.

4. Compare: $(16 - 11) \times 12$ ____ $16 \times 12 - 11 \times 12$

- A. <
B. >
C. =
D. Cannot be determined (C)

Explanation: By distributive property, $(16 - 11) \times 12 = 16 \times 12 - 11 \times 12$.

5. Compare: $(76 - 53) \times 88$ ____ $88 \times (53 - 76)$

- A. <
B. >
C. =
D. Both are positive (B)

Explanation: $76 - 53 = 23$, but $53 - 76 = -23$. So the left side is positive and the right side is negative.

6. Compare: $25 \times (42 + 16)$ ____ $25 \times (43 + 15)$

- A. <
B. >
C. =
D. Cannot be determined (C)

Explanation: $42 + 16 = 58$ and $43 + 15 = 58$. Both sides are 25×58 .

7. Compare: $36 \times (28 - 16)$ ____ $35 \times (27 - 15)$

- A. <
B. >
C. =
D. Both are negative (B)

Explanation: $28 - 16 = 12$ and $27 - 15 = 12$. So compare 36×12 and 35×12 . The left side is greater.

8. Which property is used in this equality?

- $(16 - 11) \times 12 = 16 \times 12 - 11 \times 12$
A. Commutative property
B. Associative property
C. Distributive property
D. Identity property (C)

Explanation: The distributive property lets us multiply 12 by both 16 and 11 separately.

9. In $145 - 17 \times 8$, which operation is done first?

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

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

10. Which pair is equal?

- A. $83 \times 42 - 18$ and $83 \times 40 - 18$
B. $145 - 17 \times 8$ and $145 - 17 \times 6$
C. $25 \times (42 + 16)$ and $25 \times (43 + 15)$
D. $36 \times (28 - 16)$ and $35 \times (27 - 15)$ (C)

Explanation: In option C, both brackets have the same sum, 58, so both expressions are equal.