

Commutative and Zero Properties

In this worksheet, we will practice using the commutative and zero properties of addition and multiplication.

The commutative property of addition states that when two numbers are added, the sum is the same, even when the order is different. ($1 + 2 = 2 + 1$)

The commutative property of multiplication states that when two numbers are multiplied, the product is the same, even when the order is different. ($2 \times 3 = 3 \times 2$)

The zero property of addition states that the sum of any number and zero is the original number. ($5 + 0 = 5$)

The zero property of multiplication states that the product of any number and zero is zero. ($6 \times 0 = 0$)

Exercise Questions:

1. Choose the answer that shows the commutative property of addition.

- A) $3 + 0 = 3$
- B) $2 + 3 = 3 + 2$
- C) $2(1 + 3) = 2 + 6$
- D) $3 \times 0 = 0$

2. Choose the answer that shows the zero property of addition.

- A) $4 + 1 = 1 + 4$
- B) $3(2 + 4) = 6 + 12$
- C) $5 + 0 = 5$
- D) $5 \times 0 = 0$

3. Choose the answer that shows the commutative property of multiplication.

- A) $6 \times 0 = 0$
- B) $4(2 + 3) = 8 + 12$
- C) $5 + 1 = 1 + 5$
- D) $3 \times 2 = 2 \times 3$

4. Choose the answer that shows the zero property of multiplication.

- A) $4 \times 0 = 0$
- B) $6 + 3 = 3 + 6$
- C) $5 \times 2 = 2 \times 5$
- D) $2 + 0 = 2$

5. Fill in the blank: $12 + \underline{\hspace{2cm}} = 7 + \underline{\hspace{2cm}}$

6. Fill in the blank: $25 \times 0 = \underline{\hspace{2cm}}$



Answer Key

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Exercise Questions:

1. Choose the answer that shows the commutative property of addition.

- A) $3 + 0 = 3$
- (B) $2 + 3 = 3 + 2$)**
- C) $2(1 + 3) = 2 + 6$
- D) $3 \times 0 = 0$

2. Choose the answer that shows the zero property of addition.

- A) $4 + 1 = 1 + 4$
- B) $3(2 + 4) = 6 + 12$
- (C) $5 + 0 = 5$)**
- D) $5 \times 0 = 0$

3. Choose the answer that shows the commutative property of multiplication.

- A) $6 \times 0 = 0$
- B) $4(2 + 3) = 8 + 12$
- C) $5 + 1 = 1 + 5$
- (D) $3 \times 2 = 2 \times 3$)**

4. Choose the answer that shows the zero property of multiplication.

- (A) $4 \times 0 = 0$)**
- B) $6 + 3 = 3 + 6$
- C) $5 \times 2 = 2 \times 5$
- D) $2 + 0 = 2$

5. Fill in the blank: $12 + \underline{7} = 7 + \underline{12}$

6. Fill in the blank: $25 \times 0 = \underline{0}$

