

Using Addition Properties

1. Commutative Property means:

- A. The order of the numbers being added does not change the sum.
- B. When you add zero to any number, the sum is the number.
- C. The grouping of addends does not change the sum.

Solution:

2. Use the table to answer the following questions.

- a. Use the Commutative Property to find the total number of strawberry milkshakes and mango milkshakes sold.
- b. Use the Associative Property to find the total number of mango, chocolate, and avocado milkshakes sold.

Milkshakes Sold

Flavor	Number
Strawberry	22
Mango	28
Chocolate	36
Avocado	25

Solution:

- a.
- b.

3. Find the missing numbers. Which property of addition did you use to find it?

- a. _____ + 23 = 23 + 15
- b. (4 + 6) + 3 = _____ + (6 + 3)
- c. 55 + _____ = 55
- d. _____ + 21 = 21 + 63
- e. 53 + _____ = 61 + 53
- f. 17 + (_____ + 5) = (17 + 19) + 5

Solution:

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____
- f. _____

4. Which of the following shows an example of Associative Property of Addition?

- A. $15 + 3 + 0 = 3 + 0 + 15$
- B. $72 + 9 = 9 + 72$
- C. $(28 + 4) + 2 = 28 + (4 + 2)$
- D. $37 + 0 = 37$

Solution:

5. Define the Associative Property of Addition.

Solution:

6. Which of the following shows an example of Commutative Property of Addition?

- A. $16 + 0 = 16$
- B. $(18 + 11) + 1 = 18 + (11 + 1)$
- C. $17 + 85 = 85 + 17$
- D. $42 + 0 + 5 = 47$

Solution:

Using Addition Properties

Answer Key

1. Commutative Property means:

- A. The order of the numbers being added does not change the sum.
- B. When you add zero to any number, the sum is the number.
- C. The grouping of addends does not change the sum.

Solution:

A. The order of the numbers being added does not change the sum.

2. Use the table to answer the following questions.

- a. Use the Commutative Property to find the total number of strawberry milkshakes and mango milkshakes sold.
- b. Use the Associative Property to find the total number of mango, chocolate, and avocado milkshakes sold.

Milkshakes Sold

Flavor	Number
Strawberry	22
Mango	28
Chocolate	36
Avocado	25

Solution:

a.
 $22 + 28 = 50$ or $28 + 22 = 50$
Answer: 50 milkshakes

b.
 $(28 + 36) + 25 = 64 + 25 = 89$ or
 $28 + (36 + 25) = 28 + 61 = 89$
Answer: 89 milkshakes

3. Find the missing numbers. Which property of addition did you use to find it?

- a. $\underline{15} + 23 = 23 + 15$
- b. $(4 + 6) + 3 = \underline{4} + (6 + 3)$
- c. $55 + \underline{0} = 55$
- d. $\underline{63} + 21 = 21 + 63$
- e. $53 + \underline{61} = 61 + 53$
- f. $17 + (\underline{19} + 5) = (17 + 19) + 5$

Solution:

- a. Commutative Property
- b. Associative Property
- c. Identity Property
- d. Commutative Property
- e. Commutative Property
- f. Associative Property

4. Which of the following shows an example of Associative Property of Addition?

- A. $15 + 3 + 0 = 3 + 0 + 15$
- B. $72 + 9 = 9 + 72$
- C. $(28 + 4) + 2 = 28 + (4 + 2)$
- D. $37 + 0 = 37$

Solution:

C. $(28 + 4) + 2 = 28 + (4 + 2)$

5. Define the Associative Property of Addition.

Solution:

Associative Property of Addition states that the grouping of addends does not change the sum.

6. Which of the following shows an example of Commutative Property of Addition?

- A. $16 + 0 = 16$
- B. $(18 + 11) + 1 = 18 + (11 + 1)$
- C. $17 + 85 = 85 + 17$
- D. $42 + 0 + 5 = 47$

Solution:

C. $17 + 85 = 85 + 17$