# **Properties of Addition**

### A. Choose thje Correct Answer:

- 1. Which of the following shows the Commutative Property of addition?
  - a. 345 + 123 = 123 + 345
  - b. 123 + 0 = 123
  - c. 345 + 678 = 1023
  - d. 456 + 789 = 1245

#### 2. What is the sum of any number and 0?

- a. 0
- b. 1
- c. The number itself
- d. Double the number

#### 3. Which of the following uses the Associative Property?

a. (123 + 456) + 321 = 123 + (456 + 321)

- b. 789 + 0 = 789
- c. 123 + 321 = 444
- d. 432 + 123 = 555

#### 4. Which is correct according to the identity property of addition?

- a. 0 + 678 = 678 b. 678 + 1 = 679 c. 678 + 678 = 1356
- d. 678 0 = 678
- 5. What is the missing number in 123 + \_\_\_\_ = 123?
  - a. 1
  - b. 0
  - c. 2
  - d. 123

#### **B.** Fill in the blanks

- 1. 0 added to any number gives \_\_\_\_\_
- 2. The sum of 234 and 567 is the same as 567 and \_\_\_\_\_
- 3. (100 + 200) + 300 = 100 + (200 + \_\_\_\_)

- 4. The property that says we can add numbers in any order is called \_\_\_\_\_\_ property
- 5. 789 + (211 + 300) = (789 + 211) + \_\_\_\_\_

## **C. Different Type Questions**

- 1. Show the Commutative Property using the numbers 432 and 123
- 2. Show the Associative Property with the numbers 100, 200, and 300
- 3. Match the properties with the examples:
  - a. 0 + 555 = 555 🗆 Identity Property
  - b. (200 + 100) + 50 = 200 + (100 + 50) □ Associative Property
  - c. 123 + 456 = 456 + 123 🗆 Commutative Property
- 4. Fill in the blanks to complete the property pattern: 111 + 222 = 222 + \_\_\_\_\_
- 5. Use any three numbers and write an equation showing the associative property

## D. Mark each sentence with a True (✔) or False (★):

1. 0 is the identity element for addition	
2. Addition is not commutative	
3. 123 + (456 + 789) = (123 + 456) + 789	
<ol><li>Commutative Property means changing the order of numbers changes the answer</li></ol>	
5. Associative Property works with three or more numbers	

#### E. Miscellaneous Questions

- 1. Write an example each for commutative, associative, and identity properties
- 2. Add 345 and 0. Which property does this show?
- 3. Prove that 234 + 456 = 456 + 234 with your own calculation
- 4. Add the numbers 100, 200, and 300 in two different groupings and show the result
- 5. Write a word problem where a child adds 0 to a number and explain the result using a property