# **Properties of Multiplication**

#### A. Choose the correct answer:

1. What is the result of multiplying any number by 1?

a) 1	b) 0	
c) The number itself	d) 10	
2. What is 0 × 15?		
a) 15	b) 0	

- c) 1 d) Cannot be done
- 3. Which of the following shows the commutative property?

a) 6 × 1 = 6	b) 4 × 5 = 20 and 5 × 4 = 20
c) 0 × 7 = 0	d) 9 × 2 = 18

4. What does the identity property of multiplication state?

a) Any number × 0 = 0	b) Any number × 1 = the number itself

- c) Any number × 2 = double d) None of these
- 5. Choose the correct associative property statement

a) (2 × 3) × 4 = 2 × (3 × 4)	b) (2 × 2) × 2 = 2 × 3
c) 4 × 0 = 0	d) 5 × 1 = 6

- **B.** Write the Missing Terms to Complete the Sentences:
  - 1. 7 × 0 = \_\_\_\_\_
  - 2. 1 × 18 = \_\_\_\_\_
  - 3. 3 × 4 = 4 × \_\_\_\_\_
  - 4.  $(2 \times 5) \times 6 = 2 \times (5 \times \_\_)$
  - 5. 9 × 1 = \_\_\_\_\_

## C. Mark each sentence with a True ( $\checkmark$ ) or False (X):

- 1. 6 × 0 = 6
- 2.  $4 \times 7 = 7 \times 4$
- 3. Any number multiplied by 1 remains the same

- 4.  $(3 \times 4) \times 2 = 3 \times (4 \times 2)$
- 5. Multiplying any number with 0 gives that number

## **D.** Figure out the answers to these questions:

- 1. Write an example to show the zero property of multiplication
- 2. Write two examples to show commutative property of multiplication
- 3. Multiply using associative property  $2 \times (3 \times 5)$
- 4. If  $8 \times 6 = 48$  then what is  $6 \times 8$
- 5. Write a number sentence that shows identity property of multiplication

## E. Challenge yourself with these questions:

- 1. Find the product using commutative property  $9 \times 5$
- 2. Complete the pattern using identity property  $1 \times 111 \times 121 \times 13$
- 3. Choose any two numbers and show associative property with them
- 4. Fill the blanks using zero property 0 × 3 = \_\_\_\_ and 0 × 9 = \_\_\_\_

### 5. Match the following

a) 1 × 12	i) O
b) 0 × 15	ii) 12
c) 7 × 1	iii) 21
d) 3 × 7	iv) 7
e) 5 × 0	v) 5