

# **OBJECTIVE TYPE QUESTIONS**

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Mark the correct alternative in each of the following:

### 1. 5 more than twice a number x is written as

- (a) 5 + x + 2
- **(b)** 2x + 5
- (c) 2x 5
- (d) 5x + 2

### **Solution:**

The option (b) is correct answer.

5 more than twice a number x is written as 2x + 5.

### 2. The quotient of x by 2 is added to 5 is written as

- (a) x/2 + 5
- (b) 2/x+5
- (c) (x+2)/5
- (d) x/(2+5)

### **Solution:**

The option (a) is correct answer.

The quotient of x by 2 is added to 5 is written as x/2 + 5.

## 3. The quotient of x by 3 is multiplied by y is written as

- (a) x/3y
- (b) 3x/y
- (c) 3y/x
- (d) xy/3

### **Solution:**

The option (d) is correct answer.

It can be written as

 $x/3 \times y = xy/3$ 

### 4. 9 taken away from the sum of x and y is

- (a) x + y 9
- (b) 9 (x+y)
- (c) x+y/9
- (d) 9/x+y

### **Solution:**

The option (a) is correct answer.

9 taken away from the sum of x and y is x + y - 9.

### 5. The quotient of x by y added to the product of x and y is written as

- (a) x/y + xy
- (b) y/x + xy
- (c) xy+x/y
- (d) xy+y/x

# RD Sharma Solutions for Class 6 Maths Chapter 8 – Introduction to Algebra

### **Solution:**

The option (a) is correct answer.

The quotient of x by y added to the product of x and y is written as x/y + xy.

# 6. $a^2b^3 \times 2ab^2$ is equal to

- (a)  $2a^3b^4$
- **(b)**  $2a^3b^5$
- (c) 2ab
- (d)  $a^3b^5$

### **Solution:**

The option (b) is correct answer.

It can be written as

$$a^{2}b^{3} \times 2ab^{2} = 2a^{2} \times a \times b^{3} \times b^{2} = 2a^{3}b^{5}.$$

## 7. $4a^2b^3 \times 3ab^2 \times 5a^3b$ is equal to

- (a)  $60a^3b^5$
- (b)  $60a^6b^5$
- (c)  $60a^6b^6$
- (d)  $a^6b^6$

### **Solution:**

The option (c) is correct answer.

It can be written as

$$4a^{2}b^{3} \times 3ab^{2} \times 5a^{3}b = 4 \times 3 \times 5 \times a^{2} \times a \times a^{3} \times b^{3} \times b^{2} \times b = 60a^{6}b^{6}$$

# 8. If $2x^2y$ and $3xy^2$ denote the length and breadth of a rectangle, then its area is

- (a) 6xy
- **(b)**  $6x^2v^2$
- (c)  $6x^3y^3$
- (d)  $x^3v^3$

### **Solution:**

The option (c) is correct answer.

We know that area of a rectangle = length  $\times$  breadth

By substituting the values

Area = 
$$2x^2y \times 3xy^2 = 6x^3y^3$$

# 9. In a room there are $x^2$ rows of chairs and each two contains $2x^2$ chairs. The total number of chairs in the room is

- (a)  $2x^{3}$
- (b)  $2x^4$
- (c)  $x^4$
- (d)  $x^4/2$

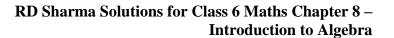
### **Solution:**

The option (b) is correct answer.

We know that

Total number of chairs in the room = Number of rows  $\times$  Number of chairs

By substituting the values





Total number of chairs in the room =  $x^2 \times 2x^2 = 2x^4$ 

10.  $a^3 \times 2a^2b \times 3ab^5$  is equal to (a)  $a^6b^6$  (b)  $23a^6b^6$  (c)  $6a^6b^6$ 

(d) None of these

**Solution:** 

The option (c) is correct answer.

It can be written as 
$$a^3 \times 2a^2b \times 3ab^5 = 2 \times 3 \times a^3 \times a^2 \times a \times b \times b^5 = 6a^6b^6$$

