Mathematics

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(Chapter - 11) (Algebra) (Practice Test 2) (Class VI)

Time: 1 Hour 15 Minutes

M. M: 25

General Instructions:

- This question paper contains four sections: A, B, C and D. Each part is compulsory.
- Section A has 5 MCQ of one mark each.
- Section B has 3 questions of two marks each.
- Section C has 3 questions of three marks each.
- Section D has 2 questions of five marks each, attempt any 1 out of 2.
- There is no negative marking.

Section - A

- 1. Which of the following is an expression with numbers only?
- (A) 3
- (B) 4
- (C) 6 + Y

- (D) 12
- 2. If Meenu's present age is x years, what was her age in years, 10 years back?
- (A) 2x
- $(B) x^2$
- (C) x + 2
- (D) x 10
- 3. Which of the following is an equation in a variable?
- (A) 2 < 10
- (B) 3 > 12
- (C) x 1 = 0
- (D) 2 + 3 = 3 + 2

- 4. Solve: k 3 = 3
- (A) -1
- (B) 2
- (C)3

(D) 6

- 5. Solve: r + 5 = 5
- (A) 2
- (B)0
- (C)4

(D) 3

Section - B

- 6. Express algebraically: 3 more than x.
- 7. The length of an edge of a cube is l. The total length of its edges is?
- 8. The rule, which gives the number of matchsticks required to make the matchstick pattern A, is?

Section - C

- 9. Cadets are marching in a parade. There are 5 cadets in a row. What is the rule which gives the number of cadets, given the number of rows? (Use n for the number of rows)?
- 10. What is the coefficient of b in -8abc?
- 11. Leela is Radha's younger sister. Leela is 4 years younger than Radha. Can you write Leela's age in terms of Radha's age? Take Radha's age to be x years?

Section - D

- 12. Oranges are to be transferred from larger boxes into smaller boxes. When a large box is emptied, the oranges from it fill two smaller boxes and still 10 oranges remain outside. If the number of oranges in a small box are taken to be x, what is the number of oranges in the larger box?
- 13. Radha is drawing a dot Rangoli (a beautiful pattern of lines joining dots) with chalk powder. She has 9 dots in a row. How many dots will her Rangoli have for r rows? How many dots are there if there are 8 rows? If there are 10 rows?

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Answers

Section - A

- 1. 3
- 2. x-10
- 3. x 1 = 0
- 4. 6
- 5. 0

Section - B

- 6. The algebraic expression of the given statement is x+3.
- 7. 6I
- 8. 3n

Section-C

9. 5n (Hint: Let n be the number of rows

Number of cadets in a row = 5

Total number of cadets = number of cadets in a row \times number of rows = 5n)

10. -8ac

(Hint: The given algebraic expression is -8abc.

Recall that, the coefficient of any term in an algebraic expression is the multiplication of other terms in that algebraic expression.

Therefore, the coefficient of the term bb in the expression –8abc is –8ac)

11.x - 4

(Hint: Let Radha's age be x years

Leela's age = 4 years younger than Radha = (x - 4) years]

Section-D

12.(2x+1)

Number of oranges in a small box = x

Number of oranges in two small boxes = 2x

Number of oranges remained = 10

Number of oranges in large box = number of oranges in two small boxes + number of oranges remained

= 2x + 10

13.90

(Hint: Number of dots in a row = 9, Number of rows = r

Total number of dots in r rows = Number of dots in a row \times number of rows = 9r

Number of dots in 8 rows = $8 \times 9 = 72$

Number of dots in 10 rows = $10 \times 9 = 90$)

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