

Mathematics

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(Chapter - 11) (Algebra) (Practice Test 6)

(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

- The length of an edge of a cube is l . The total length of its edges is
(A) $3l$ (B) $4l$ (C) $6l$ (D) $12l$
- The salary of Hari Krishna is two times the salary of Manish (which is ₹ x), then the salary of Hari Krishna, in rupees, is
(A) $2x$ (B) x^2
(C) $x + 2$ (D) $x - 2$
- Which of the following is an equation in a variable?
(A) $2 < 10$ (B) $3 > 12$
(C) $x - 1 = 0$ (D) $2 + 3 = 3 + 2$
- Solve: $3z = 9$
(A) -1 (B) 2 (C) 3 (D) 5
- Solve: $x/2 + 5 = 7$
(A) 2 (B) 1 (C) 4 (D) 3

Section - B

- Express algebraically: 3 more than x .
- What is the constant term of $2a^2 - 9$?
- Express algebraically: 8 times a number x is less than a number z by y .

Section - C

- If $y^5 = 1$, then $y = ?$
- What is the coefficient of b in $-8abc$?
- What is the exponential form of $x \times x \times x \times x \times \dots$ 15 times?

Section - D

- (a) Form expressions using t and 4 . Use not more than one number operation. Every expression must have t in it.
(b) Form expressions using y , 2 and 7 . Every expression must have y in it. Use only two number operations. These should be different.
- Mother has made laddus. She gives some laddus to guests and family members; still 5 laddus remain. If the number of laddus mother gave away is l , how many laddus did she make?

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Answers

Section - A

1. 12l
2. 2x
3. $x - 1 = 0$
4. 3
5. 4

Section - B

6. The algebraic expression of the given statement is $x + 3$.
7. -9
8. $8x = z - y$

Section-C

9. 1
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 bc in the expression $-8abc$ is $-8ac$)

11. X^{15}

(Hint: The given expression $x \times x \times x \times x \times x \dots 15$ times.

Recall that, $x \times x = x^2$,

Therefore, $x \times x \times x = x^3$, and $x \times x \times x \times x = x^4$, etc.

Therefore, the number of times x is multiplied with itself equals x to the power number.)

Section-D

12. (a) $(t + 4)$, $(t - 4)$, $4t$, $(t / 4)$, $(4 / t)$, $(4 - t)$, $(4 + t)$ are the expressions using t and 4

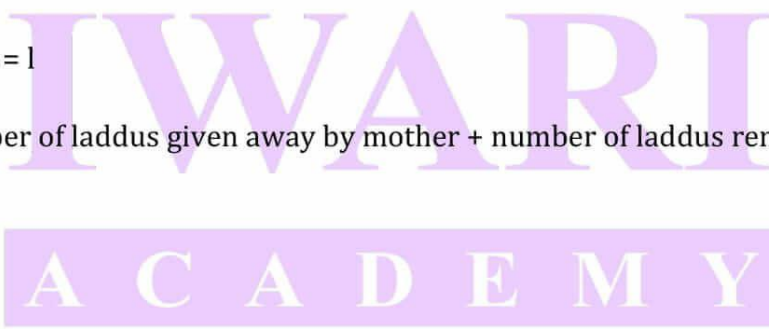
- (b) $2y + 7$, $2y - 7$, $7y + 2$, are the expression using y , 2 and 7 .

13. $(1 + 5)$

Number of laddus mother gave = 1

Remaining laddus = 5

Total number of laddus = number of laddus given away by mother + number of laddus remaining
= $(1 + 5)$ laddus)



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