



INDIAN SCHOOL DARSAIT
DEPARTMENT OF MATHEMATICS



Subject : Mathematics	Topic(10) : Algebra	Date of Worksheet : _____
Resource Person: Mrs. Jayalakshmi Ratish	Date : _____	
Name of the Student : _____	Class & Division : VI	Roll Number : ____

Section A - Basic Skills

- 1 Balu is 3 years younger than Raju. Represent it as algebraic expression.
- 2 The side of an equilateral triangle is denoted by s . Express the perimeter of the triangle using s .
- 3 Hima owns 36 marbles. When Hima and Eric put all of their marbles together, they have 86 marbles. Write an equation to which represents this.
- 4 Which out of the following are expressions with numbers only?
(a) $2y + 5$ (b) $(20 \div 5) - 3z$
(c) $3(23 - 5) + 5 \times 2$ (d) $3x + 3$
- 5 Solve $x + 10 = 12$ using trial and error method.

Section B

- 6 A student scored y marks in Science but the teacher deducted 5 marks for bad handwriting. What was the student's final score in Science?
- 7 Write expression for the following –
 - (a) Decrease a by 7
 - (b) One-fifth of s
 - (c) 7 more than g
 - (d) Take away 4 from y
 - (e) b separated into 9 equal parts
 - (f) The total of r and 10
- 8
 - (a) The variable can take _____ values.
 - (b) The value of the variable in an equation which satisfies the equation is called a _____ to the equation.
 - (c) An _____ has two sides, LHS and RHS, between them is the equal (=) sign.
 - (d) The LHS of an equation is equal to its _____ only for a definite value of the variable in the equation.

9 Pick out the solution from the values given in the bracket next to each equation.

(a) $p - 5 = 5$ (0, 10, 5 - 5)

(b) $\frac{q}{2} = 7$ (7, 2, 10, 14)

10 Complete the entries in the third column of the table.

S.No.	Equation	Value of variable	Solution (Yes/No)
1.	$h + 8 = 15$	$h = 7$	
2.	$y - 10 = 0$	$y = 6$	
3.	$3(30 - a) = 100$	$a = 10$	

11 Evaluate each expression when $y = 6$;

(a) $y + 4 =$

(b) $22 + y =$

(c) $y + 1 =$

(d) $1 - y =$

12 Pencils cost ₹ x and pens cost ₹ 5 more than pencils.

(i) Write in algebra the cost of 3 pencils?

(ii) What is the cost of a pen?

(iii) What is the total cost of 3 pencils and a pen?

13 A certain box of chocolates contains n chocolates. A shopkeeper removes 4 chocolates from each box of chocolates from each box.

(i) How many chocolates are there in each box?

(ii) A boy buys 3 boxes of chocolates. How many chocolates does he buy altogether?

14 Ramu and Balu are friends. Balu is 3 years younger than Ramu.

(a) What will be Balu's age if Ramu's age is taken as x .

(b) Bikash is twice as old as Ramu. Find Bikash's age.

(c) Ramu's father's age is 2 years more than 3 times Ramu's age. Find his father's age.

Section C – HOTS

15 If n denotes a natural number then write an expression to denote multiples of 2.

16 A train travels 62 kilometers in one hour. What will be the distance covered by the train in m hours?

17 A man has 350 watches. He sells w watches every day. Write an algebraic expression to show the number of watches he would be left with after t weeks.