

**WORK SHEET**  
**SUBJECT- MATHS**  
**Chapter 11: Algebra**

CLASS- VI

Date-

**Fill in the blanks:**

1. The \_\_\_\_\_ can take different values.
2. The value of the variable in an equation which satisfies the equation is called a \_\_\_\_\_ to the equation.
3. An equation has \_\_\_\_\_ sides, LHS and RHS, between them is the equal (=) sign.
4. The LHS of an equation is equal to its RHS only for a \_\_\_\_\_ of the variable in the equation.
5. The value of a variable is not \_\_\_\_\_.
6. An equation is expressed by saying that an expression with a variable is equal to a \_\_\_\_\_.
7. The word '\_\_\_\_\_ ' means something that can vary, i.e. change.
8. An \_\_\_\_\_ is a condition on a variable.

**Do as directed:**

9. Write each of the following phrases using numbers, literals or variables and the basic operations:
  - (i) 5 times  $x$ .
  - (ii) The product of 7 and  $x$ .
  - (iii) Multiply  $x$  by 7.
  - (iv) 3 taken away from the quotient of  $x$  by  $2y$ .
10. Write each of the following phrases using numbers, literals or variables and the basic operations:
  - (i)  $a$  times  $b$ .
  - (ii) 3 times  $x$  added to  $y$ .
  - (iii) Quotient of  $z$  by 6 is multiplied by  $y$ .
  - (iv) 4 times the sum of  $x$  and  $y$ .
  - (v) 3 times  $x$  is subtracted from  $y$ .
  - (vi) Quotient of  $x$  by  $y$  added to the product of  $x$  and  $y$ .
  - (vii) 5 more than thrice a number  $x$ .
  - (viii) 3 times  $x$  added to 7 times  $y$ .
  - (ix) Quotient of  $x$  by 4 is added to  $y$ .
  - (x) Eight times a number  $p$  is  $x$  less than a number  $y$ .
11. Think of a number. Multiply it by 5. Add 6 to the result. Subtract  $y$  from this result. What is the result?
12. The number of rooms on the ground floor of a building is 12 less than the twice of the number of rooms on first floor. If the first floor has  $x$  rooms, how many rooms does the ground floor has?
13. Binny spends ₹  $a$  daily and saves ₹  $b$  per week. What is her income for two weeks?
14. Rahul scores 80 marks in English and  $x$  marks in Hindi. What is his total score in the two subjects?
15. One pencil costs ₹ 2 and one fountain pen costs ₹ 15. What is the cost of  $x$  pencils and  $y$  fountain pens?
16. Rohit covers  $x$  centimeters in one step. How much distance does he cover in  $y$  steps?
17. One apple weighs 75 grams and one orange weighs 40 grams. Determine the weight of  $x$  apples and  $y$  oranges.
18. A rectangular box has height  $h$  cm. Its length is 5 times the height and breadth is 10 cm less than the length. Express the length and the breadth of the box in terms of the height.
19. 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)
20. Complete the entries in the third column of the table.

S. No.	Equation	Value of variable	Equation satisfied (Yes/No)
a.	$b + 5 = 9$	$b = 5$	
b.	$b + 5 = 9$	$b = 4$	
c.	$x + 10 = 30$	$x = 10$	
d.	$p - 3 = 7$	$p = 10$	

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