

**Bhavan's V. M. Public School, Baroda**  
**Ch-4.Simple Equation**

**1.Frame the equations for the following:**

- a. 6 times a number added to 10 is 64.
- b. A number decreased by 8 is equal to 48.
- c. A number is 4 times another number. Their sum is 30.
- d. A number is 8 times another number. Their difference is 42.
- e. Half of a number is 21 less than twice the number.
- f. A book costs twice that of a pen. The pen and book together cost Rs. 48.
- g. 4 less from thrice a number m is 14.
- h. Three fifth of a number decreases by 9 gives 51.
- l .A number divided by 9 minus 4 is equal to 31.
- j. The sum of a number x and 15 gives 100.

**2. Solve the equations and check the result:**

i.  $3(x-1)=2x+11$       ii.  $x+\frac{1}{2}=\frac{7}{2}$       iii.  $7+4y=-5$

iv.  $\frac{x}{2}-1=\frac{x}{3}+4$

**3. Check whether the given solutions in the bracket satisfy the equations.**

**(Check for each solution one by one.)**

i.  $x+7=10$  ( $x=4, 2, 3$ )      ii.  $2x+6=20$  ( $x=5, 7, 6$ )      iii.  $5x=-30$  ( $x=-2, -3, -6$ )

iv.  $\frac{x}{3}+8=11$  ( $x=3, 6, 9$ )      v.  $\frac{x}{8}=9$  ( $x=48, 64, 72$ )

**4. Solve each of the following equations:**

i.  $3(x+2)=15$       ii.  $8c-7=-23-2c$       iii.  $\frac{w}{3}+5=20$       iv.  $\frac{2t+3}{7}=4$

v.  $\frac{2}{5}x=20$       vi.  $2y-\frac{1}{2}=-\frac{1}{3}$       vii)  $4+5(p-1)=34$

**Set up the equations and solve them:**

5. A number when divided by 7 gives the quotient 6. What is the number?
6. Sanjay has twice as many rupees as Sonia. Together they have Rs 210. How many rupees does Sonia have?
7. Somya is now 4 times as old as Renu. Five years ago Somya was 7 times as old as Renu. Find the present age of each.
8. The sum of three consecutive numbers is 30. What are these numbers?
9. Find two numbers such that one of them exceeds the other by 9 and their sum is 81.
10. Sheela is 20 years old and Sushma is 4 years old. In how many years will Sheela be twice as old as Sushma?
11. The sum of three consecutive integers is 36. What are these integers?
12. The sum of three consecutive even numbers is 36. What are these integers?
13. If one side of a square is represented by  $4x-7$  and the adjacent side represented  $3x+5$ , Find the value of x.
14. Sandeep has twice as many rupees as Sonia. Together they have Rs 150. How much rupees does Sonia have?
15. A number is multiplied by 3 and then added to 5 to get the answer 20. What is the number?
16. Rahim's father is 3 times as old as Rahim. If sum of their ages is 56, find their ages.

-----End-----

Ms Rani Rauthan