Subject: - Mathematics
Topic: - Linear Equations

PRACTICE PAPER

CBSE-7ᵗʰ

1. Solve the equation and check the answer: -

a) $3(x + 2) - 2(x - 1) = 7$.　　　b) $5(2 - 3x) - 17(2x - 5) = 16$ 　　　**Ans. a) x = -1 b)** $x = \frac{79}{49}$

c) $3x - 2(2x - 5) = 2(x + 3) - 8$　　　d) $m - \frac{m-1}{2} = 1 - \frac{(m-2)}{3}$ 　　　**Ans. c) x = 4 d) m =** $\frac{7}{5}$

2. Find three consecutive natural no.'s such that the sum of the first and second is 15 more than the third.
Ans. 16, 17, 18

3. The difference b/w two no.'s is 7. Six times the smaller plus the larger is 77. Find the no.'s.　**Ans. 10 & 17**

4. Mrs. Jain is 27 years older than her daughter Nilu. After 8 years she will be twice as old as Nilu. Find their present ages.　　　**Ans. x = 19**

5. The difference in age b/w a girl and her younger sister is 4 years. The younger sister in turn is 4 years older than her brother. The sum of the ages of the younger sister and her brother is 16. How old are the three children?　　　**Ans. x = 14**

6. A bag contains 25 paise and 50 paise coin whose total value is ₹30. If the no. of 25 paise coin is four times that of 50 paise coins. Find the no. of each type of coins.　　　**Ans. x = 20**

7. The length of a rectangle is three times its width and its perimeter 56 m. find the length.　　　**Ans.= 7**

8. The sum of the three consecutive odd no. is 81. Find the middle no.?　　　**Ans. 27**

9. Simplify and check: -

a) $6(3x + 2) - 5(6x - 1) = 3(x - 8) - 5(7x - 6) + 9x$　　　**Ans. x = -1**

10. A no. when multiplied by 4, Exceeds itself by 45. Find the no.　　　**Ans. 15**

11. Divide 184 into two parts such that one – third of one part may exceed one – seventh of the other part by 8.　　　**Ans.** $x = 72$

12. A sum of 500 is in the form of denomination if 5 and 10. If the total no. of notes is 90, find the no. of notes of each type.　　　**Ans.** $x = 80$

13. A no. consists of two digits whose sum is 8. If 18 is added to the no. its digits are reversed. Find the no.
Ans. $x = 5$