

CLASS 8 – MATHEMATICS  
CHAPTER 2  
LINEAR EQUATIONS IN ONE VARIABLE

**WORK SHEET 2 of 4**

- 1) The ages of Rahul and Haroon are in the ratio 5:7. Four years later the sum of their ages will be 56 years. What are their present ages?
- 2) Fifteen years from now Ravi's age will be four times his present age. What is Ravi's present age?
- 3) The sum of three consecutive multiples of 11 is 363. Find these multiples.
- 4) Bansi has 3 times as many two-rupee coins as he has five-rupee coins. If he has in all a sum of Rs 77, how many coins of each denomination does he have?
- 5) I have a total of Rs 300 in coins of denomination Rs 1, Rs 2 and Rs 5. The number of Rs 2 coins is 3 times the number of Rs 5 coins. The total number of coins is 160. How many coins of each denomination are with me?
- 6) Lakshmi is a cashier in a bank. She has currency notes of denominations Rs 100, Rs 50 and Rs 10, respectively. The ratio of the number of these notes is 2:3:5. The total cash with Lakshmi is Rs 4,00,000. How many notes of each denomination does she have?

***Multiple Choice Questions***

***In questions 8 to 10 out of the four options only one is correct, write the correct answer.***

- 7) Arpita's present age is thrice of Shilpa. If Shilpa's age three years ago was  $x$ .

Then Arpita's present age is

- |                |                |
|----------------|----------------|
| (a) $3(x - 3)$ | (b) $3x + 3$   |
| (c) $3x - 9$   | (d) $3(x + 3)$ |
- 8) The sum of three consecutive multiples of 7 is 357. Find the smallest multiple.
- |         |         |
|---------|---------|
| (a) 112 | (b) 126 |
| (c) 119 | (d) 116 |

9) If  $\frac{-4}{3}y = \frac{-3}{4}$ , then  $y =$

(a)  $-\left(\frac{3}{4}\right)^2$

(b)  $-\left(\frac{4}{3}\right)^2$

(c)  $\left(\frac{3}{4}\right)^2$

(d)  $\left(\frac{4}{3}\right)^2$

**Fill in the blanks**

**In questions 16 to 30, fill in the blanks to make each statement true.**

10)  $9x - \underline{\hspace{2cm}} = -21$  has the solution  $(-2)$

11) Three consecutive numbers whose sum is 12 are     ,      and     .

12) After 18 years, Swarnim will be 4 times as old as he is now. His present age is                     .

13) The sum of two consecutive multiples of 10 is 210. The smaller multiple is                     .

14) Fifteen added to thrice a whole number gives 93. The number is                     .

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