

## INDIAN SCHOOL AL WADI AL KABIR

Class VIII, Mathematics

Linear Equations- Worksheet (DTQ)

25-08-2021

Descriptive Questions-Short Answer Type (2 marks each)									
Q1.	Solve: $\frac{5x-4}{8} - \frac{x-3}{5} = \frac{x+6}{4}$								
Q2.	Find the value of y, if $\frac{y}{2y+6} = \frac{3}{8}$								
Q3.	Solve: $\frac{m}{2} - \frac{5m}{4} + \frac{7m}{6} = 25$								
Descriptive Questions- Long Answer Type 1 (3 marks each)									
Q4.	The sum of three consecutive multiples of 6 is 162. Find the multiples.								
Q5.	The sum of two numbers is 78. Their difference is 18. Find the numbers.								
Q6.	Solve: $5x - 2(2x - 7) = 2(3x - 1) + \frac{7}{2}$								
Q7.	A grand mother is fifteen times older than her granddaughter. She is also 70 years older than her. Find their present ages.								
Q8.	The perimeter of a rectangle is 320cm. If the ratio of length and breadth is 5:3, find the length and breadth of the rectangle.								
Q9.	Solve the equation:								
	4(3w + 2) - 5(6w - 1) = 2(w - 8) - 6(7w - 4) + 4w								
Q10.	Twenty-five years from now, I will be 3/2 times of my present age. What will be my age after twenty-five years?								
Q11.	Present ages of Sam and Ram are in the ratio 8:9. Five years from now the ratio of their ages will be 9:10. Find their present ages.								
	Descriptive Questions Long Answer Type 2 (4 marks each)								
Q12.	The sum of ₹9000 is in the form of denominations of ₹100 and ₹500.if the total number of notes is 50, find the number of notes of each type.								
Q13.	Amul has ₹780 in the denominations of ₹100, ₹50, and ₹10. The number of notes is in the ratio 5:4:8. Find the number of notes of each kind.								
Q14.	The numerator of a fraction is 4 less than the denominator. If 1 is added to both its numerator and denominator, it becomes $\frac{1}{2}$ . Find the fraction.								
Q15.	The digits of a two-digit number differ by 3. If digits are interchanged and the resulting number is added to the original number, we get 121. Find the original number.								
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ANSWERS										
Answers	1.	x = 8	2	y = 9	3	m = 60	4	The multiples are 48, 54, 60		
	5	The numbers are 30 and 48	6	$x=\frac{5}{2}.$	7	Age of granddaughter =5yrs Age of grandmother = 75 yrs	8	Length = 100cm and breadth = 60cm		
	9	$w = \frac{-5}{18}$	10	75 years	11	40,45	12	No. of ₹100 notes = 40 No. of ₹500 notes = 10		
	13	No. of ₹10 notes = 5 No. of ₹50 notes = 4 No. of ₹10 notes = 8	14	$\frac{3}{7}$	15	The original number can be 47 or 74				