



INDIAN SCHOOL AL WADI AL KABIR
Class VIII, Mathematics Worksheet- LINEAR EQUATIONS IN ONE VARIABLE
22-06-2020

OBJECTIVE TYPE (1 Mark)

Q.1.	The value of y ,if $2y - 3 = 27$							
	A	15	B	12	C	17	D	11
Q.2.	The solution of $3 + \frac{x}{4} = 5$							
	A	17	B	8	C	2	D	4
Q.3.	If $2x + 4 = x - 5$,then x is							
	A	5	B	2	C	9	D	-9
Q.4.	If $\frac{1}{3}$ of a number is 10 less than the original number ,then the number is							
	A	30	B	15	C	10	D	27
Q.5.	Five times the number increased by 4 is equal to 39.The number is							
	A	4	B	5	C	7	D	6
Q.6.	If $\frac{z}{6} = 7$,then z = -----							
	A	1	B	13	C	42	D	-13
Q.7.	If $m + \frac{6}{7} = 8\frac{6}{7}$, then m is							
	A	8	B	12	C	11	D	6
Q8.	When you subtract a number from twice itself gives you 13 .Express it algebraically							
	A	$X - 2x = 13$	B	$2x - x = 13$	C	$2 + x - x = 13$	D	$x - 2 = 13$
Q9	Two-fifth of a number increase by 2 is 4 ,then the number is							
	A	10	B	15	C	5	D	8
Q10	The solution of the Equation $3x - 7 = 2x + 1$ is							
	A	-8	B	6	C	-6	D	8

SECTION B (2 marks)	
Q11.	One number is five times the other number and their sum is 90. Find the numbers.
Q12.	Find two consecutive even integers whose sum is 86.
Q13.	Solve the equation : $2x - 3 = 1 + 3(x + 4)$
Q14.	The length of a rectangle is 8 more than its breadth.If the perimeter of the rectangle is 84 cm, find the dimensions of the rectangle.
Q15	Find three consecutive integers whose sum is 96.
Q16	Solve : $\frac{2x+5}{3} = 3x - 10$
Q17	Find the number such that when 5 is subtracted from 5 times the number, the result is 4 more than twice the number.
Q18	Divide 68 into two parts such a way that the larger number exceeds the smaller number by 6.
Q19	The difference between two numbers is 66.and they are in the ratio 2:5 find the numbers.
Q20	Solve : $\frac{x}{2} + \frac{x}{3} + \frac{x}{4} = 13$

SECTION C(3marks)	
Q 21	The present age of Seema's mother is three times the present age of Seema.After 5 years, their age will be added to 66 years .Find their present ages.
Q 22	The sum of three consecutive multiples of 7 is 777.find the multiples.
Q23	Milan has 3 times as many two-rupee coins as he has five- rupee coins. If he has in all sum of ₹77, how many coins of each denomination does he have?
Q24	Two angles of a triangle are in the ratio 1:2.If the sum of these angles is equal to the third angle, find the angles of the triangle. What type of triangle is this?
Q25	Manu is 9 years older than Sonu.In 10 years Manu will be twice as old as Sonu as was 10 years ago. Find their present ages.

ANSWERS

ANSWERS	1. A	2. B	3. D	4. B	5. C
	6. D	7. A	8. B	9. C	10.C
	11. 15,75	12. 42,44	13. $x = -16$	14. Length=25cm, breadth=17cm	15.31,32,33
	16. $x = 5$	17. 3	18. 31 & 37	19. 44 & 110	20. $X = 12$
	20. 14 years, 42 years	22. 252, 259, 266	23. Five Rupee coins=7 Two rupee coins =21	24. $30^{\circ}, 60^{\circ}, 90^{\circ}$ Right angled triangle	25. Sonu's age-39 years Manu's age = 48 years

