INDIAN SCHOOL AL WADI AL KABIR

Class VIII

LINEAR EQUATIONS WITH ONE VARIABLE

Worksheet - 4

OBJECTIVE TYPE (1 Mark)

Q.1.	The digits in the tens place of a two-digit number is 3 more than the digits in the unit place. If the digit at unit place is b , the number is							
	A	$11b + 30$	**B**	$10b + 30$	**C**	$11b + 3$	**D**	$10b + 3$
Q.2.	A linear equation in one variable has							
	A	Only one solution	**B**	Two solutions	**C**	More than two solutions	**D**	No solution
Q.3.	Value of s in $\frac{1}{3} + s = \frac{2}{5}$							
	A	$\frac{4}{5}$	**B**	$\frac{1}{15}$	**C**	$\frac{5}{10}$	**D**	0
Q.4.	9 is subtracted from the product of p and 4, the result is 11. The value of p is							
	A	1	**B**	2	**C**	5	**D**	4
Q.5.	The sum of two consecutive numbers is 15. The numbers are.....							
	A	6,9	**B**	7,8	**C**	10,5	**D**	11,4
Q.6.	Ram is 8 years now. He is 5 years elder than his brother Gopal. Gopal's age after 7 years will be...							
	A	12 years	**B**	10 years	**C**	15 years	**D**	13 years
Q.7.	The perimeter of an equilateral triangle is 36 cm. Find its side.							
	A	$6cm$	**B**	$12cm$	**C**	24cm	**D**	18cm
Q.8.	The sum of two numbers is 50 and their difference is 22. The numbers are.....							
	A	27,23	**B**	26,24	**C**	11,39	**D**	36,14
Q.9.	Three years ago, Mini's age was 15 years. Find her present age.							
	A	18 years	**B**	12 years	**C**	20 years	**D**	10 years
Q.10	The length of a rectangle is 6cm more than three times its breadth. The perimeter is 132 cm. Its length is							
	A	60cm	**B**	50cm	**C**	51 cm	**D**	36 cm

	FILL IN THE BLANKS
Q.11	In a linear equation, the …… power of the variable appearing in the equation is one.
Q.12	The solution of the equation$3x - 4 = 11$ is ……..
Q.13	$\frac{x}{5} + 30 = 18$ has the solution as ……..
Q.14	The value of x Which makes the equation a true statement is called …… of the equation.
Q.15	The solution of $2x - 3 = 7$ is ……..
	SECTION B (2 Marks)
Q.16	One of the angles of a triangle is equal to the sum of the other two angles. If the ratio of the other two angles is 4:5, find the angles of the triangle.
Q.17	The sum of three consecutive multiple of 9 is 999. What are the numbers?
Q.18	Solve : $\frac{2x+5}{6} - \left(\frac{1}{4}\right) = \frac{2x-7}{12}$
Q.19	The numerator of a rational number is 7 less than the denominator. If the denominator is increased by 9 and numerator by 2, we get $\frac{3}{5}$. Find the rational number.
Q.20	Find the three consecutive even numbers, whose sum exceeds the smallest of them by 234.
	SECTION C (4 Marks)
Q.21	**State True and False** a) Both sides of an equation can be multiplied by same number without changing the equality of the two sides. b) The solution of $7x + 11 = 25$ is $x = 3$ c) $2x^3 + \frac{1}{5} = 25$ is a linear equation. d) Anita's mothers age is 34 years. It is 4 more than 3 times her age. This can be represented as $3x + 4 = 34$
Q.22	100 students contributed for a party. Some contributed Rs 15 each and the others Rs 25 each. If the total amount collected was Rs 2100, how many contributed Rs 15 each?
Q.23	There are benches in class room. If 4 students sit on each bench, three benches are left vacant; and if 3 students sit on each bench, 3students are left standing. What is the total number of students in the class?
Q.24	The ratio between the ages of Mohan and Ram are in the ratio 7:9. Nine years ago, their ages were in the ratio2:3. Find their present ages.

Q.25	A number consists of 2 digits whose sum is 7. If 45 is added to the number, the digits are reversed. Find the number.							
	ANSWERS							
Answers	**Q.1**	A)11b+30	**Q.2**	A) Only one solution	**Q.3.**	B)$\frac{1}{15}$	**Q.4**	C)5
	Q.5	B) 7,8	**Q.6**	B)10 years	**Q.7**	B) 12cm	**Q.8**	D)36,14
	Q.9	A) 18 years	**Q.10**	C) 51 cm	**Q.11**	highest	**Q.12**	5
	Q.13	-60	**Q.14**	*solution*	**Q.15**	$x = 5$	**Q.16**	40,50,90
	Q.17	324,333,342	**Q.18**	(-7)	**Q.19**	$\frac{19}{26}$.	**Q.20**	114,116,118
	Q.21	a) True b) False c) False d) True	**Q.22**	X=40	**Q.23**	X=48students	**Q.24**	21years, 27 years
	Q.25	16						

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