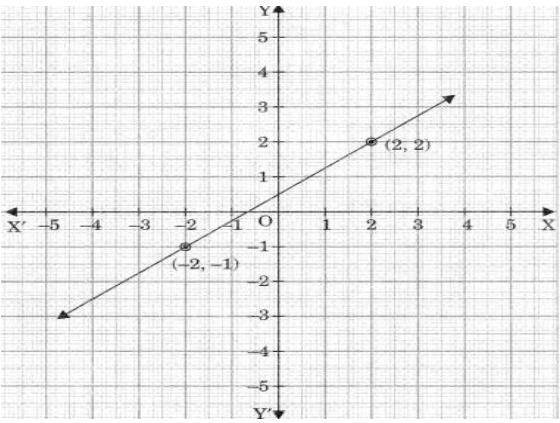


INDIAN SCHOOL AL WADI AL KABIR
Class IX, Mathematics Worksheet- LINEAR EQUATIONS
 18-09-2021

OBJECTIVE TYPE (1 Mark)

Q.1.	Any point on the line $y = x$, is of the form:						
A	(a, a)	B	$(0, a)$	C	$(a, 0)$	D	$(a, -a)$
Q.2.	$x = 5, y = 2$ is a solution of the linear equation:						
A	$x + 2y = 7$	B	$5x + 2y = 7$	C	$x + y = 7$	D	$5x + y = 7$
Q.3.	$2 = -y$ can be expressed in the form $ax + by + c = 0$						
A	$y + 2 = 0$	B	$y + 0.x + 3 = 0$	C	$0.x + 1.y - 2 = 0$	D	$0.x + 1.y + 2 = 0$
Q.4.	If $(3, 2)$ is a solution of the equation $3x - py - 7 = 0$, then the value of p is:						
A	-1	B	1	C	$\frac{-13}{3}$	D	2
Q.5.	If $(a, 1)$ lies on the graph of $3x - 2y + 4 = 0$, then the value of a is:						
A	$\frac{-2}{3}$	B	$\frac{2}{3}$	C	$\frac{3}{2}$	D	$\frac{-3}{2}$
Q.6.	Age of a father is 7 years more than 3 times the present age of his son. The above statement can be expressed in a linear equation as:						
A	$x - 3y - 7 = 0$	B	$x + 3y + 7 = 0$	C	$x + 3y - 7 = 0$	D	$x - 3y + 7 = 0$
Q.7.	If $(20, -a)$ lies on 'l' whose graph is given, then the value of a is :						
A	-10	B	5	C	-5	D	10

Q.8.	Abscissa of all points on the y -axis is:						
A	1	B	0	C	-1	D	None of these
Q.9.	The linear equation $3x = 2y$ when expressed in the form $ax + by + c = 0$, then a, b and c are respectively:						
A	3, 2, 0	B	3, 2, 1	C	3, -2, 0	D	3, -2, 1
Q.10.	Which of the following equations represents a line parallel to y -axis?						
A	$2y = 5x$	B	$2y = 5$	C	$2x = 5$	D	$2x + 3y = 5$
Q.11.	Richa had 10 chocolates, let her brother borrowed y chocolates from her and then Richa had 4 chocolates. Which equation models this solution?						
A	$10 - y = 4$	B	$10 + y = 4$	C	$10y = 4$	D	$4y = 10$
Q.12.	To which equation does the graph represent:						
							
A	$3x - 7y = 10$	B	$y - 2x = 3$	C	$8y - 6x = 4$	D	$5y - 6x = 4$
Q.13.	How many linear equation in x and y can be satisfied by $x = 1$ and $y = 2$?						
A	Only one	B	Two	C	Infinitely many	D	Three
Q.14.	Solution of linear equation $2x + 0.y + 9 = 0$ is						
A	$(9/2, m)$	B	$(n, -9/2)$	C	$(0, -9/2)$	D	$(-9/2, 0)$
Q.15.	Equation of a line passing through origin is						
A	$x + y = 1$	B	$x = 2y - 4$	C	$x + y = 0$	D	$y = x - 1$

Q21.

CASE STUDY:

Prime Minister’s National relief fund is the fund raised to provide support for people affected by natural and man-made disasters. Natural disasters that are covered under this include flood, cyclone, earth quake etc. Man-made disasters that are included are major accidents, acid attacks, riots etc.



Two friends Sita and Gita together contributed ₹.200 towards PMNF. Answer the following questions:

D)	Which of the following is not the linear equation in two variables:							
A	$2x = 3$	B	$x^2 + x = 1$	C	$4 = 5x - 4y$	D	$x - \sqrt{2}y = 3$	
II)	How to represent the above situations in linear equations in two variables?							
A	$2x + y = 200$	B	$x + y = 200$	C	$220x = y$	D	$200 + x = y$	
III)	If Sita contributed Rs. 76, then how much was contributed by Gita?							
A	₹120	B	₹124	C	₹123	D	₹125	
IV)	If both contributed equally, then how much is contributed by each?							
A	₹ 50, ₹ 50	B	₹100, ₹100	C	₹120, ₹120	D	₹200, ₹200	
V)	Which is the standard form of the linear equation $x = - 5$							
A	$x + 5 = 0$	B	$1.x - 5 = 0$	C	$1.x + 0.y + 5 = 0$	D	$1.x + 0.y = 5$	

Answers	1	A	2	C	3	D	4	B
	5	A	6	A	7	C	8	B
	9	C	10	C	11	A	12	C
	13	C	14	D	15	C	16.	I-C, II- B III-B, IV-B V-C