INDIAN SCHOOL AL WADI AL KABIR

Class VIII, Mathematics ***Worksheet- Linear Equations***

10-08-2020

OBJECTIVE TYPE (1 Mark)

Q.1	If $3x - 4(64 - x) = 10$, then the value of x is							
	A	–266	B	133	C	66.5	D	38
Q.2.	If $5x - 3(2x + 1) = 21 + x$, then the value of x is							
	A	-12	B	15	C	11	D	12
Q.3.	If $4x + 10 = 3(x + 10)$, then the value of x is							
	A	30	B	20	C	10	D	50
Q.4.	The value of x for which the expressions $3x - 4$ and $2x + 1$ become equal is							
	A	–3	B	0	C	5	D	1
Q.5.	The value of y in $\frac{1}{3} + y = \frac{2}{5}$ is							
	A	$\frac{4}{5}$	B	$\frac{1}{15}$	C	$\frac{4}{5}$	D	0
Q.6.	The ratio of two numbers is 2 : 5 and their difference is 63. The larger number will be							
	A	126	B	315	C	501	D	105
Q.7.	If the sum of two consecutive numbers is 71 and one number is x, the equation formed is:							
	A	$x + (x+1) = 71$	B	$x + (x+2) = 71$	C	$x + x = 71$	D	$x - (x+1) = 71$
Q.8.	The prices of a scooter and cycle are in the ratio 9:5. If the scooter costs ₹ 4,200 more than a cycle, what is the price of the cycle?							
	A	₹ 5250	B	₹ 5200	C	₹ 5000	D	₹ 4800
Q.9.	If the angles of a triangle are in the ratio 2:3:4, what is the difference between the greatest and the smallest angles?							
	A	10°	B	20°	C	30°	D	40°

Q.10	If $\frac{5x}{3} - 4 = \frac{2x}{5}$, then value of x is							
	A	$\frac{19}{60}$	B	$\frac{60}{19}$	C	0	D	$\frac{-60}{19}$
Fill in the blanks(1mark)								
Q11.	If $\frac{x}{2} - \frac{x}{3} = 4$, then x is _____.							
Q12.	The solution of the equation 2y = 5y $-\frac{18}{5}$ is_____							
Q13.	If $\frac{2x}{5} - 2 = 5 - \frac{3x}{5}$, then x = _____							
Q14.	After 18 years, Swarna will be 4 times as old as he is now. His present age is _____.							
Q15.	If $\frac{5m}{6} + \frac{3m}{4} = \frac{19}{12}$ then, the value of m is _____							
SECTION B (2 marks)								
Q16.	Find 't' if $4t - 3 - (3t + 1) = 5t - 4$							
Q17.	Find 'x' if $5(x - 1) - 2(x + 8) = 0$							
Q18.	Find 'x' if $1 - (x - 2) - [(x - 3) - (x - 1)] = 0$							
Q19.	Find $'m'$ if $m - \frac{m-1}{2} = 1 - \frac{m-2}{3}$							
Q20.	Find $'p'$ if $4(3p + 2) - 5(6p - 1) = 2(p - 8) - 6(7p - 4)$							
SECTION C (4marks)								
Q21.	Find $'x'if$ $\frac{5(1-x)+3(1+x)}{1-2x} = 8$							
Q22.	Find $'x'if$ $\frac{x}{2} + \frac{3x}{4} - \frac{5x}{6} = 2$							
Q23.	A lady went to a bank with ₹1,00,000. She asked the cashier to give her ₹ 500 and ₹ 1000 currency notes in return. She got 175 currency notes in all. Find the number of each kind of currency notes.							
Q24.	Find $'x'if$ $\frac{x-2}{3} = \frac{x-1}{4}$							

Q25.	The sum of three consecutive multiples of 7 is 357. Find the multiples.

Answers

Answers	**1**	d	**2**	a	**3.**	b	**4**	c
	5	b	**6**	d	**7**	a	**8**	a
	9	d	**10**	b	**11**	24	**12**	$\frac{6}{5}$
	13	7	**14**	6	**15**	1	**16**	0
	17	7	**18**	5	**19**	$\frac{7}{5}$	**20**	$\frac{-5}{22}$
	21	0	**22**	$\frac{24}{5}$	**23**	₹1000 notes = 25 ₹500 notes = 150	**24**	5
	25	112, 119, 126						

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