

INDIAN SCHOOL AL WADI AL KABIR

(2020 - 21)

Class	: VIII		Depar	tme	nt: MATHEMATI	CS				
Worksheet No: 1 Top			Topic	pic: Linear equations in one variable				Note:		
			I	М	ultiple Choice	Qu	estions			
Q.1.	A lin	ear equati	on in o	ne vai	riable has					
	A	Only o		В	Two solutions	С	Three solution	ns D	Infinite solutions	
Q.2.	If $(5x - 5) + 3(2x - 5) = 8x - 26$, then $x =$									
	Α	5		В	3	С	-2		7	
Q.3.	If $\frac{a-3}{5} = \frac{a-9}{2}$, then the value of a is									
	Α	13		В	9	С	10	С	8	
Q.4.	One sixth of a number when subtracted from the number itself gives 25. The number is:									
	Α	33		В	32	С	35	С	30	
Q.5.	What should be added to $\frac{-2}{3}$ to get $\frac{5}{7}$?									
	А	$\frac{29}{21}$		В	5 7	С	$\frac{-29}{21}$		$\frac{4}{5}$	
Q.6.	If $3(2z - 3) = 2z + 7$. Find z									
	Α	14		В	4	С	2		-2	
Q.7.	3 added to a number is 11. Convert the following statements into equations.									
	Α	3 + p	= 11	В	3 + 11 = p	С	P + 11 = 3	3 C	3 + p + 11 = 0	
Q.8.	Fran	ne the eq	uation	for "	2 times the sun	n of	the number x	and 7	7 is 13"	
	Α	2x - 5		В	2x + 13) = 7		2x + 7) = 1	.3 D	2(x+7) = 13	

Q.9.	A carpenter charges Rs. 2500 for making a bed. The cost of material used is Rs. 1100 and labour charges Rs 200/hr. For how many hours did the carpenter work?								
	Α	1	В	2	С	7	D	4	
Q.10	Mahu thought of a number, doubled it and added 20 to it. On dividing the								
	resulting number by 25, she gets 4. What is the number?								
	A	10	В	40	С	50	D	20	
Q.11	STA	TE TRUE/FALSE:							
	The three-consecutive multiple of 7 would $7x$, $7x + 7$, $7x + 21$								
Q.12	The cost of a pencil is 5 Rs more than the cost of an eraser. If the cost of 8								
	pencils and 10 erasers is Rs 130, then the cost of pencil is 10 Rs is true.								
Q.13	A sum of Rs 2700 is to be given in the form of 63 prizes. If the prize is of either								
	Rs 100 or Rs 25, find the number of prizes of each type.								
Q.14	The	present age of S	Sahil'	s mother is thre	ee tii	mes the present	age (of Sahil. After 5	
	years their ages will add to 66 years. Find their present ages.								
Q.15	Bans	si has 3 times as	mar	ny two-rupee co	oins a	as he has five-ru	pee (coins. If he has	
	in all a sum of Rs 77, how many coins of each denomination does he have?								
Q.16	The sum of three consecutive multiples of 11 is 363. Find these multiples.								
Q.17	Half of the number of boys of Class 8 B went to the football ground to play. One								
	fourth of the total number of boys went to the Library to take books. Remaining								
	10 boys went to the 3 rd Language room. Find the number of boys of Class 8 B.								
Q.18	Ram	esh is a cashier	in a	Canara bank. h	e ha	s notes of denor	ninat	ions of Rs. 100,	
	50 a	nd 10 respective	ely. T	he ratio of nun	nber	of these notes is	2:3	:5 respectively.	
	The	total cash with F	Rame	esh is 4,00,000.	Hov	v many notes of	each	denomination	
	does	s he have?							
Q.19	The	digits of a two-c	ligit	number differ b	y 3.	If the digits are	inte	rchanged, and	
	the resulting number is added to the original number, we get 143. What can be								
	the original number?								

Q.20	Present ages of Anu and Raj are in the ratio 4:5. Eight years from now the ratio
	of their ages will be 5:6. Find their present ages.
Q.21	The denominator of a rational number is greater than its numerator by 4. If
	numerator is increased by 11 and the denominator is decreased by 1, the new
	number becomes $\frac{7}{3}$. Find the original number.
Q.22	Arjun is twice as old as Shreeya. Five years ago, his age was three times
	Shreiya's age. Find their present ages.
Q.23	The perimeter of a rectangle is 13 cm and its width is $3\frac{2}{4}$ cm. Find its length.
Q.24	Jane is 6 years older than her younger sister. After 10 years, the sum of their
	ages will be 50 years. Find their present ages.
Q.25	Two equal sides of a triangle are each 4m less than three times the third side.
	Find the dimensions of the triangle, if its perimeter is 55m.

Ans	Answer key									
	1	One solution	2	-2	3	13	4	30		
	5	29 21	6	4	7	3 + p =11	8	2(x+7)=13		
	9	7	10	40	11	false	12	Rs 10, true		
	13	X=15	14	X=14	15	X=7	16	X=10		
	17	40	18	X=1,000	19	85or 58	20	X=8		
	21	X=3	22	X=10	23	l=3cm	24	X=12		
	25	9m, 23m, 23m								