INDIAN SCHOOL AL WADI AL KABIR
Class VII, Mathematics ***Worksheet-SIMPLE EQUATIONS***
29-08-2021

Department of Mathematics

OBJECTIVE TYPE (1 Mark)

Q.1.	9 added to twice a number gives 13. Find the number						
	A	5	B	2	C	9	D	4

Q.2.	Solve the equation and find the value of a: $8 + 5(a - 1) = 38$						
	A	35	B	5	C	7	D	34

Q.3.	The equation having 5 as a solution is						
	A	$4x + 1 = 2$	B	$3 - x = 8$	C	$x - 5 = 3$	D	$3 + x = 8$

Q.4.	If $k + 7 = 16$, then the value of $8k - 72$ is						
	A	0	B	1	C	112	D	56

Q.5.	If $\frac{x}{2} = 3$, then the value of x is						
	A	20	B	10	C	6	D	8

Q.6.	Shifting one term from one side of an equation to another side with a change of sign is known as						
	A	commutativity	B	transposition	C	distributivity	D	associativity

Q.7.	Which of the following numbers satisfy the equation $-6 + x = -12$?						
	A	6	B	2	C	-6	D	-2

Q.8.	-1 is not a solution of the equation						
	A	$x + 1 = 0$	B	$2p + 7 = 5$	C	$2y + 3 = 1$	D	$x - 1 = 2$

Q.9.	1 subtracted from one third of a number gives 1. Find the number.						
	A	5	B	6	C	4	D	3

Q.10.	Which of the following equations can be formed using the expression x = 5							
	A	2x + 3 = 13	B	x − 5 = 1	C	3x + 2 = 13	D	4x − 9 =21
Q.11.	If a and b are positive integers, then the solution of the equation ax = b will always be a							
	A	1	B	negative number	C	positive number	D	0
Q.12.	The value of y for which the expressions (y − 15) and (2y + 1) become equal is							
	A	0	B	16	C	8	D	− 16
Q.13.	Write an equation for the statement: Sum of two numbers is 81.One is twice the other.							
	A	$2x + 3x = 81$	B	$x + 2x = 81$	C	$x + x = 81$	D	$x - 2x = 81$
Q.14.	If 43m = 0.086, then the value of m is							
	A	0.002	B	0.02	C	0.2	D	2
Q.15.	Raju's father's age is 5 years more than three times Raju's age. Find Raju's age, if his father is 44 years old.							
	A	12	B	13	C	15	D	14

Fill in the blanks (1mark)

Q.16.	If $16 = 8 + 4(p - 2)$ is the given equation ,then the value of p is_____.
Q.17.	If $\frac{1}{6} - x = \frac{1}{6}$, then x is _____ .
Q.18.	The age of Shan is four times that of his son Amrit. If the difference of their ages is 27 years, then the age of Amrit is _____ years.
Q.19.	Any value of the variable which makes both sides of an equation equal, is known as a _____ of the equation.
Q.20.	2x + _____ = 11 has the solution − 4 is _____.

CASE STUDY QUESTION

Q.21. Rimisha went to a fair in her village. She wanted to enjoy rides on the Giant Wheel and play Hoopla (a game in which you throw a ring on the items kept in a stall, and if the ring covers any object completely, you get it). The number of times she played Hoopla is half the number of rides she had on the Giant Wheel. If each ride on the Giant Wheel costs ₹ 10, and a game of Hoopla costs ₹ 15, and she spent ₹ 105.

(i) If the number of times she rides giant wheel is x, then the number of times she plays Hoopla is

A	$\frac{1}{2}(x)$	B	$2x$	C	$3x$	D	$\frac{1}{4}(x)$

(ii) How many more number of times did Rimisha played Giant wheel than she played on hoopla?

A	Three times	B	Half time	C	One time	D	Two times

(iii) How many times can she play Hoopla, if she rides Giant wheel six times?

A	1	B	6	C	3	D	2

(iv) How much did she spent on playing Hoopla if a game of Hoopla costs ₹ 15?

A	45	B	60	C	100	D	80

(v) How much did she spent on riding the Giant Wheel if each ride on the Giant Wheel costs ₹ 10?

A	45	B	60	C	55	D	80

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Answers											
Answers	**1**	B	**2**	C	**3**	D	**4**	A			
	5	C	**6**	B	**7**	C	**8**	D			
	9	B	**10**	A	**11**	C	**12**	D			
	13	B	**14**	A	**15**	B	**16**	p = 4			
	17	0	**18**	9 years	**19**	Solution	**20**	19			
	21	(i)A	**21**	(ii) D	**21**	(iii) C	**21**	(iv) A			
	21	(v) B									