INDIAN SCHOOL AL WADI AL KABIR

Class VII, Mathematics

WORKSHEET (OTQ) –SIMPLE EQUATIONS

Multiple Choice Questions

Q.1.	If k + 7 = 10, find the value of 4k – 5.						
	A	35	B	50	C	7	D	34
Q.2.	5 added to twice a number gives 13. Find the number.						
	A	5	B	2	C	9	D	4
Q.3.	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.4.	Find the value p in the given equation $5\ (2\,p - 1) = 5$.						
	A	1	B	20	C	40	D	-10
Q.5.	Write an equation for the statement: The sum of two numbers is 80 if one of the numbers is three times the other.						
	A	$2x + 3x = 80$	B	$x + 3x = 80$	C	$x + 3 = 80$	D	$x - 3x = 80$
Q.6.	1 is not a solution to which of the following equations.						
	A	x - 1 = 0	B	7 – 2p = 5	C	2y + 3 =5	D	x – 3 = 2
Q.7.	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.8.	Which of the following numbers satisfies the equation 6 + x = 12?						
	A	6	B	2	C	– 6	D	– 2
Q.9.	Check whether the value given in brackets is the Solution to the given equation or not n – 9 = 19 , (n=10)						
	A	Yes	B	No	C	Can't say	D	Data inadequate
Q.10	Four subtracted from six times a number is expressed as						
	A	6m + 4	B	6m – 4	C	4m + 6	D	4m – 6

	Source-Based Questions: Rashmi visited the carnival, and she enjoyed the excitement of riding the Giant Wheel and playing Hoopla. She played Hoopla 3 more than twice the number of times she rode the Giant Wheel. She played Hoopla 17 times. Each game of Hoopla costs ₹25, while each ride on the Giant Wheel costs ₹50.							
Q.11	If the number of times she rides the giant wheel is x, then the number of times she plays Hoopla is							
	A	$\frac{1}{2}x + 2$	B	$2x + 3$	C	$3x + 2$	D	$\frac{1}{4}x + 3$
Q.12	Give the equation for the number of times Rashmi played Hoopla.							
	A	$2x = 17$	B	$2x - 3 = 10$	C	$3x + 2 = 17$	D	$2x + 3 = 17$
Q.13	How many times did she ride the giant wheel?							
	A	7	B	6	C	3	D	12
Q.14	How much did she spend on riding the giant Wheel if it costs ₹10 per ride?							
	A	₹270	B	₹360	C	₹330	D	₹350
Q.15	Write the equation for her trip to Columbus, 5 less than the 2 times than the giant wheel and she goes 10 times for Columbus.							
	A	$2x - 3 = 10$	B	$3x + 2 = 10$	C	$2x - 5 = 10$	D	$2x + 3 = 10$
	CASE STUDY: Kanika lives with her parents in a city. She eagerly awaits the opportunity to visit her grandparent's home during vacations to reunite with her extended family members who reside there.							
Q.16	If her grandfather is 4 more than 6 times than Kanika. Set up an expression for her grandfather's age.							
Q.17	Find the Kanika age if this grandfather is 76 years old.							
Q.18	Her cousin's sister is 5 years younger than 3 times than her brother. Find the brother's age if the sister is 19 years old.							
Q.19	Subtract 15 from twice her Aunty age, the result is 65. Find Aunt's age.							
Q.20	Convert equation 3y + 7 = 1 in statement form.							

ANSWERS

1.	C	2.	D	3.	B	4.	A
5.	B	6.	D	7.	D	8.	A
9.	B	10.	B	11.	B	12.	D
13.	A	14.	D	15.	C	16.	$6x + 4$
17.	12 years	18.	8 years	19.	40 years	20.	Seven is added to three times a number