



# INDIAN SCHOOL AL WADI AL KABIR

**Class VII, Mathematics**

## SIMPLE EQUATIONS Worksheet-1

### OBJECTIVE TYPE (1 Mark)

Q.1.	If $5x + 7 = 32$ , then $x$ is equal to:							
A	30	B	0	C	$\frac{224}{5}$	D	5	
Q.2.	Which of the following equations cannot be formed using the equation $x = 7$							
A	$2x + 1 = 15$	B	$7x - 1 = 50$	C	$x - 3 = 4$	D	$x - 1 = 6$	
Q.3.	The solution of the equation $ax + b = 0$ is:							
A	$\frac{a}{b}$	B	$\frac{b}{a}$	C	$-b$	D	$-\frac{b}{a}$	
Q.4.	The equation having 5 as a solution is:							
A	$4x + 1 = 2$	B	$3 - x = 8$	C	$3 + x = 8$	D	$x - 5 = 3$	
Q.5.	Shifting one term from one side of an equation to another side with a change of sign is known as:							
A	Associativity	B	Distributivity	C	Transposition	D	Commutativity	
Q.6.	If $p = 2$ , then the value of $\frac{1}{3}(1 - 3p)$ is:							
A	$-\frac{5}{3}$	B	$\frac{5}{3}$	C	$-\frac{7}{3}$	D	$\frac{7}{3}$	
Q.7.	The equation having $-3$ as solution is:							
A	$x + 3 = 1$	B	$8 + 2x = 3$	C	$10 + 3x = 1$	D	$2x + 1 = 3$	

Q.8.	Which of the following number satisfy the equation $-3 + x = 12$							
	A	-15	B	9	C	-9	D	15
Q.9.	The value of y for which the expressions $y + 3$ and $2y + 1$ become equal is:							
	A	0	B	2	C	4	D	-2
Q.10.	If $7x + 4 = 25$ , then x is equal to:							
	A	2	B	$\frac{28}{7}$	C	3	D	$\frac{100}{7}$
<b>Fill in the blanks(1mark)</b>								
Q.11.	If $y - 8 = -4$ , then $y =$ _____.							
Q.12.	The value of the variable which makes the equations a true statement is called the _____ of the equation.							
Q.13.	If we subtract 5 from one side of an equation, we must subtract _____ from the other side.							
Q.14.	If 10 less than a number is 85, then the number is _____.							
Q.15.	If $\frac{9}{5}x = \frac{18}{5}$ , then $x =$ _____							
<b>SECTION B (2 marks )</b>								
Q.16.	Set up equations for the following statements: a) One third of a number minus 6 gives 4. b) When I subtracted 8 from two-fifth of a number, I get 9.							
Q.17.	If $2x + 4 = 8$ , then find the value of $3x + 2$ .							
Q.18.	Construct 4 equations starting with $m = -3$							
Q.19.	Convert the following equations in statement form: (i) $y - 5 = 9$ (ii) $3p = 27$ (iii) $2n + 7 = 1$ (iv) $\frac{m}{6} = 3$							
Q.20.	Find the value of z. $\frac{5z+1}{3} = 7$							

**SECTION C (4marks)**

<b>Q.21.</b>	Check whether the value given in the brackets is a solution to the given equation or not: a) $5p - 2 = 8$ ; ( $p = 0$ ) b) $q + 7 = 4$ ; [ $q = (-3)$ ]
<b>Q.22.</b>	Solve the following equations: a) $3x - 8 = (-1)$ b) $\frac{5m}{4} = 10$
<b>Q.23.</b>	The length of the rectangle is 6m more than its breadth. The perimeter of the rectangle is 128m. Find the dimensions of the rectangle. (Take breadth of rectangle as b).
<b>Q.24.</b>	In a class there are 50 students. Number of girls is 2 more than the number of boys. Find the number of girls and the number of boys in the class.(Take number of boys as x)
<b>Q.25.</b>	Kiran's father is 75 years old. He is 3 years older than four times Kiran's age. Find Kiran's age.

**Answers**

<b>Answers</b>	<b>Q.1.</b>	D) 5	<b>Q.2</b>	B) $7x - 1 = 50$	<b>Q.3.</b>	D) $\frac{-b}{a}$	<b>Q.4</b>	C) $3 + x = 8$
	<b>Q.5.</b>	C) Transposition	<b>Q.6</b>	A) $\frac{-5}{3}$	<b>Q.7</b>	C) $10 + 3x = 1$	<b>Q.8</b>	D) 15
	<b>Q.9.</b>	B) 2	<b>Q.10</b>	C) 3	<b>Q.11</b>	$y = 4$	<b>Q.12</b>	Solution
	<b>Q.13</b>	5	<b>Q.14</b>	95	<b>Q.15</b>	$x = 2$	<b>Q.16</b>	$\frac{x}{3} - 6 = 4$ ; $\frac{2}{5}y - 8 = 9.$
	<b>Q.17</b>	8	<b>Q.18</b>	$m + 1 = -2$ ; $2m = -6$ ; $\frac{m}{3} = -1$ ; $m - 2 = -5$	<b>Q.19</b> i)	5 subtracted from y gives 9	<b>Q.19</b> ii)	P multiplied by 3 gives 27
<b>Q.19</b> iii)	Sum of twice a number n and 7 is 1	<b>Q.19</b> iv)	One sixth of a number m is 3	<b>Q.20</b>	$z = 4$	<b>Q.21</b>	a) No, b) Yes	
<b>Q.22</b>	a) $x = \frac{7}{3}$ , b) $m = 8$	<b>Q.23</b>	Length = 35m, Breadth = 29m	<b>Q.24</b>	Boys = 24, Girls = 26	<b>Q.25</b>	18	

\*\*\*\*\*