INDIAN SCHOOL NIZWA – WORKSHEET

MATHEMATICS
CH: 4 SIMPLE EQUATIONS

Name: _____ Date: _____ Class: VII Sec: ___

I.	**Choose the correct answer**
1.	No. of solutions for an equation y – 7 = 9 is a) 1 b) 16 c) 2 d) – 16
2.	The equation for 'the quotient of $3x$ and 5 is 24' is _____ $a)\ 3x \div 5 = 4$ $b)\ 3x \div 5 = 24$ $c)\ 3x - 5 = 24$ $d)\ 5 \div 3x = 24$
3.	Which is correct for the equation – 3m + 5 = 7 in the given options? a) 5 = 7 – 3m b) – m +5 = 7/3 c) 3m = – 7 + 5 d) – 3m = – 7 – 5
4.	The first three consecutive natural numbers in algebraic form if the first number is 'c' =____ a) c, c+3, c – 2 b) c, c+1, c+2 c) c, c+1, c+4 d) c – 1, c , c+ 2
5.	t = $-1/3$ is the solution of the equation a) $-3t - 9 = 0$ $b)\ -3t + 1 = 0$ $c)\ -3t - 9 = 0$ $d)\ 3t - 1 = -2$
II.	**Fill In the Blanks**
6.	The statement for the equation $\frac{1}{3}$k – 5 = 6 is _____
7.	The solution of an equation $x - 12 = 4$ is ____
8.	Equation for 'one third of the sum of the numbers p and q gives 20' is _____
9.	The first step to solve the equation $\frac{4}{5}m - 10 = 7$ is _____
III.	**Answer the following**
10.	Translate each of the following statements into an equation, using 'x' as the unknown variable: (i) 4 more than thrice a number is 22. (ii) Twice of a number subtracted from 19 is 9.

INDIAN SCHOOL NIZWA – WORKSHEET

	(iii) Add 7 to three times a number y gives 1 (iv) 4 subtracted from one- fourth of p gives 6.
11.	Find the value (m – 2), where 2m – 5 = 15.
12.	One of the equal sides of an isosceles triangle is 10 cm and the other side is (y) cm. If the perimeter is 25 cm, then form an equation to represent the perimeter.
13.	10 is subtracted from five times of a number gives 40. Find the successor of the number.
14.	The length of a rectangle is three times its width. If the perimeter of the rectangle is $96\ m$, find the length and breadth of the rectangle.
15.	Convert the following equations in statement form: (i) $3p + 5 = 2$ (ii) $3p = 180$ (iii) $\frac{2}{3}m - 60 = 100$
16.	Write the equation and solve it: a) A number when added to its half gives 72. Find the number. b) Sum of two numbers is 75. If one exceeds the other by 5, find the numbers. c) A number multiplied by 7 and increased by 60 gives 11. d) A number divided by 5 and decreased by 80 gives 25.
17.	Solve the following equations: $(a)\ \frac{5z+1}{3} = 7$ (b) –2 (x + 3) =8 (c) 0 = 18 + 2 (p – 6) (d) $5x + 13/2 = 19$