ARMY PUBLIC SCHOOL, HISAR

CLASS 7(MATHS)

CHAPTER –SIMPLE EQUATIONS

MULTIPLE CHOICE QUESTIONS:

1. Which of the following is not a simple equation?

(a) $2x + 3 = 5$ (b) $2x + 5 = 1$ (c) $2x^2 = 9$ (d) $y – 2y = 2$

2. Which of the following is not a simple equation in one variable?

(a) $3x – 1 = 7$ (b) $5y – 2 = 3(y + 2)$ (c) $2x – 3 = 7/2$ (d) $7x + y = 3$

3. The solution of the equation $3x – 2 = 7$ is

(a) -3 (b) 3 (c) 9 (d) 5/3

4. The solution of the equation $\frac{1}{3}(2y - 1) = 3$ is

(a) 5 (b) 3 (c) 2 (d) 1

5. x = -1 is the solution of the equation

(a) $x – 5 = 6$ (b) $2x + 5 = 7$ (c) $2(x - 2) + 6 = 0$ (d) $3x + 5 = 4$.

6. If 3 subtracted from twice a number is 5, then the number is

(a) -4 (b) -2 (c) 2 (d) 4

7. If $3(3n - 10) = 2n + 5$, then value of n is

(a) 12 (b) 5 (c) 3 (d) -5

8. If sum of two consecutive natural numbers is 31, then the smaller number is

(a) 15 (b) 16 (c) 17 (d) 15.5

9. If sum of two consecutive even numbers is 54, then the smaller number is

(a) 25 (b) 26 (c) 27 (d) 28

10. If sum of two consecutive odd numbers is 28, then the bigger number is

(a) 19 (b) 17 (c) 15 (d) 13

11. If 5 added to thrice an integer is -7, then the integer is

(a) -6 (b) -5 (c) -4 (d) 4

12. If length of a rectangle is twice its breadth and its perimeter is 120m, then its length is

(a) 20m (b) 40m (c) 60m (d) 30m

13. The difference of two complementary is 10^0, then the smaller angle is

(a) 40^0 (b) 50^0 (c) 45^0 (d) 85^0

14. If the difference of two supplementary angles is 30^0, then the larger angle is

(a) 60^0 (b) 75^0 (c) 90^0 (d) 105^0

FILL IN THE BLANKS:

15. An equation is a statement that two expressions are…….

16. An equation containing only one variable with highest power one is called a …….equation in that variable.

17. A simple equation in one variable cannot have more than ……solutions.

18. A number which satisfies a given simple equation is called a ……..of the equation.

19. If five times a number is 50, then the number is …….
20. The number 4 is the …….of the equation 2y – 5 = 3.
21. The equation for the statement '5 less than thrice a number x is 7' is ……
22. We can multiply both sides of an equation by the…….non-zero number.

STATE WHETHER THE FOLLOWING STATEMENTS ARE TRUE (T) OR FALSE (F):

23. We can add (or subtract) the same number or expression to both sides of an equation.
24. We can divide both sides of an equation by the same non-zero number.
25. 3x – 5 = 2(x + 3) + 7 is a simple equation in one variable.
26. The solution of the equation 3(x - 4) = 30 is x = 6.
27. The solution of the equation 3x – 5 = 2 is x = 7/3.
28. The solution of a simple equation in one variable is always an integer.
29. 4x + 5 < 65 is not an equation.

Answers

1. C
2. D
3. B
4. A
5. C
6. D
7. B
8. A
9. B
10. C
11. C
12. B
13. A
14. D
15. Equal
16. Simple
17. One
18. Solution
19. 10
20. Solution
21. 3x – 5 = 7
22. Same
23. True
24. True
25. True
26. False
27. True
28. False

29. True