



## MATHS

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## LINEAR EQUATIONS

### MCQ'S

- The standard form of a linear equation in one variable  $x$  is
  - $ax + b = 0$
  - $ax^2 + bx + c = 0$
  - $ax^3 + bx^2 + cx + d = 0$
  - $ax^4 + bx^3 + cx^2 + dx + e = 0$ .
- If 15 is subtracted from a number, it becomes -5. This statement in the form of an equation is
  - $x + 15 = -5$
  - $x - 15 = 5$
  - $x + 15 = 5$
  - $x - 15 = -5$ .
- A number when subtracted from 40 results into 15. This statement in the form of an equation is
  - $40 - x = 15$
  - $x - 40 = 15$
  - $40 + x = 15$
  - $40x = 15$ .
- The degree of the equation  $x^2 - 2x + 1 = x^2 - 3$  is
  - 1
  - 2
  - 0
  - 3.
- $x$  is an odd number. The largest odd number preceding  $x$  is
  - $x - 1$
  - $x - 2$
  - $x - 3$
  - $x - 4$

6. The solution of the equation  $5x = 2$  is
- (a) 10
  - (b)  $2/5$
  - (c)  $5/2$**
  - (d)  $1/10$
7. Seven times a number is 42. This statement in the form of an equation is
- (a)  $x + 7 = 42$
  - (b)  $7x = 42$**
  - (c)  $x/7 = 42$
  - (d)  $x - 7 = 42$ .
8. The largest number of the three consecutive numbers is  $x + 1$ . Then, the smallest number is
- (a)  $x + 2$
  - (b)  $x + 1$
  - (c)  $x$
  - (d)  $x - 1$**
9. When 9 is added to two times a number, we get 67. The number is
- (a) 25
  - (b) 27
  - (c) 29**
  - (d) 31.
10. The statement 'on adding 10 in a number, the number becomes 20' in the form of an equation is
- (a)  $x - 10 = 20$
  - (b)  $x + 10 = 20$**
  - (c)  $10x = 20$
  - (d)  $x/10 = 20$
11. The value of  $x$  in  $3/4 x = 7 - x$  is
- (a) 4**
  - (b) 3
  - (c)  $7/3$
  - (d) 7.
12. In a two digit number, the unit's digit is  $x$  and the ten's digit is  $y$ . Then, the number is
- (a)  $10y + x$**
  - (b)  $10x + y$
  - (c)  $10y - x$
  - (d)  $10x - y$ .

13. The root of the equation  $5x - 8 = 7$  is
- (a) 1
  - (b) 2
  - (c) 3**
  - (d) -3
14. Which of the following is not a linear equation in one variable?
- a) 33
  - b)  $33(x+y)$**
  - c)  $33x$
  - d)  $33y$
15. The solution of  $2x-3=7$  is:
- a) 5**
  - b) 7
  - c) 12
  - d) 11
16. The solution of  $2y + 9 = 4$  is:
- a)  $9/2$
  - b)  $4/9$
  - c)  $-2/5$
  - d)  $-5/2$**
17. The solution of  $y/5 = 10$  is:
- a) 15
  - b) 10
  - c) 50**
  - d) 5
18. What should be added to  $-7/3$  to get  $3/7$ ?
- a)  $21/58$
  - b)  $58/21$**
  - c)  $47/21$
  - d)  $50/21$
19. The perimeter of rectangle is 20cm. If the length of rectangle is 6cm, then its breadth will be:
- a) 4 cm**
  - b) 6 cm
  - c) 10 cm
  - d) 14 cm

20. The age of father is three times the age of son. If the age of son is 15 years old, then the age of father is:
- a) 50 years
  - b) 55 years
  - c) 40 years
  - d) **45 years**
21. The difference between two whole numbers is 66. The ratio of the two numbers is 2 : 5. The two numbers are:
- a) 60 and 6
  - b) 100 and 33
  - c) **110 and 44**
  - d) 99 and 33
22. Three consecutive integers add up to 51. The integers are:
- a) **16,17,18**
  - b) 15,16,17
  - c) 17,18,19
  - d) 18,19,20
23. The solution for  $3m = 5m - (8/5)$  is:
- a)  $8/5$
  - b)  **$4/5$**
  - c)  $5/4$
  - d)  $4/3$
24. The value of 'x' in  $3x - 4 = 7$  is
- a) 1
  - b)  **$11/3$**
  - c)  $3/11$
  - d)  $7/12$
25. On solving  $x/2 + 5/3 = -1/2$ , we get x =
- a)  **$-13/3$**
  - b)  $-3/13$
  - c)  $13/3$
  - d)  $3/13$
26. In  $15/4 - 7x = 9$ , x=
- a)  $4/3$
  - b)  $3/4$
  - c)  $-4/3$
  - d)  **$-3/4$**

27. Sum of two numbers is 84. One of the numbers is 20 more than the other. The smaller number is
- 12
  - 22
  - 32**
  - 42
28. What should be added to thrice the rational number  $-\frac{5}{2}$  to get  $\frac{2}{7}$ ?
- $\frac{107}{5}$
  - $\frac{5}{107}$
  - $\frac{14}{109}$
  - $\frac{109}{14}$**
29. The perimeter of a rectangle is 30cm. If its breadth is 3cm then its length is
- 4.5cm
  - 5cm**
  - 5.5cm
  - 6cm
30. The present age of Sonu is  $\frac{1}{3}$ rd of his father's present age. After 4 years the sum of their ages will be 60 years. The present age of Sonu is
- 11 years
  - 12 years
  - 13 years**
  - 14 years
31. Suhail has 4 times as many one rupees coins as he has five rupees coins. If he has a total of 81 rupees then the denomination of one rupee coin he has
- 30
  - 36**
  - 42
  - 46
32. The sum of three consecutive multiple of 9 is 81. The smallest number is
- 9
  - 18**
  - 27
  - 36
33. The difference between two numbers is 44. The ratio of these numbers is 3:5. The smaller number is
- 22
  - 44
  - 66**
  - 88

34. The solution of  $4x + \frac{5}{2} = \frac{1}{2x} - 7$  is
- a)  $x = -\frac{19}{7}$
  - b)  $x = -\frac{7}{19}$
  - c)  $x = \frac{19}{7}$
  - d)  $x = \frac{7}{19}$
35. The digits of a two digit number differ by 2. If the digits are interchanged and resulting number is added to original number. We get 88, the original number is
- a) 13
  - b) 24
  - c) **35**
  - d) 57
36. Rohit is thrice as old as Sanjana. Four years ago his age was four times Sanjana age. The present age of Rohit is
- a) 8 years
  - b) 12 years
  - c) 24 years
  - d) **36 years**
37. The value of 'x' if  $\frac{(x-5)}{3} - \frac{(x-3)}{5}$ , is
- a) 6
  - b) **8**
  - c) 10
  - d) 12
38. On solving  $\frac{(x-1)}{(2x+3)} = \frac{1}{3}$ ,  $x =$
- a) 2
  - b) **3**
  - c) 4
  - (D) 5

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