

EQUATIONS

Equations In One Variable Worksheet

For students preparing for MAH-BBCA/BBA/BMS/BBM CET 2024 for admission to BCA, BBA, BMS, BBM

1. If $\frac{2x}{5} = 4$, the value of x is-

- A. 10
- B. -10
- C. $-\frac{8}{5}$
- D. $\frac{8}{5}$

- B. 7.6
- C. 66
- D. 32

2. Solve: $3b = 5b - \frac{8}{5}$

- A. $\frac{4}{5}$
- B. $\frac{6}{5}$
- C. $\frac{3}{5}$
- D. $\frac{9}{5}$

7. Solve $2x + 9 = 4$.

- A. $X = 6$
- B. $X = -\frac{5}{2}$
- C. $X = -\frac{3}{2}$
- D. $X = -\frac{9}{2}$

3. Simplify the following equation:

$$4(m-4) = 5(2m-5)$$

- A. $\frac{3}{2}$
- B. $\frac{5}{2}$
- C. $\frac{9}{2}$
- D. $\frac{7}{1}$

8. What is the value of x if $x + 9 = 12$?

- A. 2
- B. 3
- C. 8
- D. 6

4. When a number is added to itself, it becomes

24. What is the number?

- A. 2
- B. 4
- C. 12
- D. 21

9. The solution for $3m = 5m - \frac{8}{5}$ is:

- A. $\frac{8}{5}$
- B. $\frac{4}{5}$
- C. $\frac{5}{4}$
- D. $\frac{4}{3}$

5. If x is an even number, then the next even number is:

- A. $x+1$
- B. $x+2$
- C. $x+3$
- D. $x+4$

10. What should be added to $-\frac{7}{3}$ to get $\frac{3}{7}$?

- A. $\frac{21}{58}$
- B. $\frac{58}{21}$
- C. $\frac{47}{21}$
- D. $\frac{50}{21}$

6. Find the value of x if $2x + 10 = 76$.

- A. 33

11. The solution of $\frac{y}{5} = 10$ is:

- A. 15
- B. 10
- C. 50
- D. 5

12. The solution of $2y + 9 = 4$ is:

- A. $\frac{9}{2}$
- B. $\frac{4}{9}$

- C. $-4/9$
D. $-5/2$
13. The solution of $2x-3=7$ is:
A. 5
B. 7
C. 12
D. 11
14. Solve $3y + \frac{6}{5} = \frac{27}{5} - y$
A. $2/5$
B. $21/4$
C. $27/8$
D. $21/20$
15. if $\frac{x}{3} - \frac{x-4}{3} = 1$, find the value of X
A. 9
B. $3/2$
C. $3/5$
D. More then one of the above
E. None of the above
16. Solve equation $7x + 14 = 21$ to find value of x.
A. $x = 1$
B. $x = -1$
C. $x = 2$
D. $x = -2$
17. Find the solution for the equation $3x + 3 = 4$.
A. 3
B. $1/3$
C. 4
D. $1/4$
18. Solve: $\frac{5}{2}x + \frac{3}{2} = \frac{6}{4}$
A. $x = 1$
B. $x = 2$
C. $x = 3$
D. $x = 0$
19. Solve: $7x - 2 = 3$.
A. $x = 5/7$
B. $x = 7/5$
C. $x = 3/5$
D. $x = 5/3$
20. Pick the equation from the given one's which have solution as $z = 2$.
A. $2z - 2 = 3$
B. $3z - 2 = -2$
C. $3z - 3 = 3$
D. $4z + 3 = 3$
21. Pick the equation which has the solution in the form of prime number.
A. $2x = 3$
B. $3z = -6$
C. $4y - 3 = 2$
D. $2z - 2 = 2$
22. What is the solution of the equation, $7 + 2x = 0$?
A. $2/7$
B. $-2/7$
C. $7/2$
D. $-7/2$
23. The solution of equation $3x + 6 = -3$ is $x = -3$.
A. True
B. False
24. $x - 13 = -5 - 26$
A. 18
B. -44
C. 44
D. -18
25. $8x - 15x = -44 - 12$
A. -7
B. 8
C. 7
D. -8
26. $3(5x + 4) - 20 = 13x - 4$
A. 2
B. 8
C. -2
D. 4
27. $2(y + 5) = 3(y - 8)$
A. -34
B. -14
C. 34
D. 14

28. $7x - 5 = 8(x + 3)$

- A. 29
- B. -29
- C. -19
- D. 19

29. $3(x + 1) = 12$

- A. 5
- B. -5
- C. -3
- D. 3

30. $-8 + 22 = 13x - 5 - 12x$

- A. 9
- B. 25
- C. -9
- D. 19

31. $-8x + 10 = -6x + 6$

- A. 5
- B. 2
- C. -5
- D. -2

32. $x / 8 + 25 = 0$

- A. 200
- B. $25/8$
- C. $-25/8$
- D. -200

33) $7y - 28 = 8y - 14$

- A. -15
- B. -6
- C. -14
- D. -1

34. $\frac{n}{-6} = 4 - (-2)$

- A. 12
- B. -12
- C. 36
- D. -36

35. $-54 - 8x = -2x$

- A. 9
- B. -9
- C. -324
- D. 324



Answer Key

1. A	2. A	3. A	4. C	5. B	6. A	7. B	8. B	9. B	10. B
11. C	12. D	13. A	14. D	15. B	16. A	17. B	18. D	19. A	20. C
21. D	22. D	23. A	24. D	25. B	26. A	27. C	28. B	29. D	30. D
31. B	32. D	33. C	34. D	35. B					

