Unit 1: Equations

Name: _____

Date: _____

1. Solve for x: $1.5x = 30$

2. Solve for x: $0.6x + 1.5 = 3.9$

3. Solve for x: $\frac{2}{3}x = -12$

4. Solve for x: $\frac{2}{3}x - 1 = 5$

5. Solve for x: $3.5x + 5.4 = 19.4$

6. The solution of the equation $3(x + 3) = 12$ is

   A. 1   B. 2   C. 3   D. 4

7. Solve for x: $\frac{3}{2}x + 2 = 14$

8. Solve for x: $6(x + 1) = 4x$

9. Solve for x: $5x + 7 = 2x - 2$

10. Solve for x: $5x - 2(x + 1) = 10$.

11. Solve for x: $5x - 2(x + 1) = 10$.

12. Solve for x: $5x - 1 = 3x + 7$

13. What is the value of x in the equation $4(2x + 1) = 27 + 3(2x - 5)$?

    A. 21   B. 9   C. $7\frac{1}{2}$ D. 4

14. Solve for s: $7s + 4(3 - s) = 18$

15. Solve for x: $15x - 3(3x + 4) = 6$

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

16. What is the value of x in the equation $\frac{3}{4}x + 2 = \frac{5}{4}x - 6$?

    A. -16 B. 16   C. -4 D. 4

17. If $2(x + 3) = x + 10$, then x equals

    A. 14   B. 7   C. 5   D. 4

18. What is the value of w in the equation $\frac{3}{4}w + 8 = w - 7$?

    A. 2.4   B. −0.2

    C. −13.846   D. −36

19. What is the value of n in the equation $3n - 8 = 32 - n$?

    A. −10   B. −6   C. 6   D. 10

20. What is the value of x in the equation $6(x - 2) = 36 - 10x$?

    A. −6   B. 1.5   C. 3   D. 6

21. What is the value of p in the equation $8p + 2 = 4p - 10$?

    A. 1   B. −1   C. 3   D. −3

22. If $3(x + 2) - 2(x + 1) = 8$, the value of x is

    A. 1   B. $\frac{1}{5}$ C. 5   D. 4

23. What is the value of m in the equation $2m - (m + 1) = 0$?

    A. 1   B. −1   C. 13   D. 0

24. What is the solution for the equation $x + 1 = x + 2$?

    A. −1

    B. $\frac{1}{2}$

    C. all real numbers

    D. There is no solution.

Unit 1: Equations   01/22/2013

1.
Answer: 20

2.
Answer: 4

3.
Answer: −18

4.
Answer: 9

5.
Answer: 4

6.
Answer: A

7.
Answer: 8

8.
Answer: −3

9.
Answer: −3

10.
Answer: 4

11.
Answer: 4

12.
Answer: 4

13.
Answer: D

14.
Answer: 2

15.
Answer: C

16.
Answer: B

17.
Answer: D

18.
Answer: D

19.
Answer: D

20.
Answer: C

21.
Answer: D

22.
Answer: D

23.
Answer: A

24.
Answer: D