

Chapter 1 - Practice Test

1. Evaluate $4v + 6w$ for $v = 3$ and $w = -2$.
2. Evaluate $\frac{42 - z}{-2z + 4}$ when $z = -2$.
3. Evaluate $3a^3 + (3a)^2$ when $a = -3$.
8. Jeff earns \$4.00 an hour baby-sitting. He is saving to buy a pair of in-line skates that costs \$116.00. If Jeff already has \$60.00 saved, how many hours must he baby-sit in order to buy the skates?
9. Solve the equation. $-3x + 5 = 7x + 8$
10. Solve the equation. $5(3 - 4x) = 7 - (4 - x)$

Simplify the expression.

4. $9(a - 1) + 4(a - 1)$
5. The literature club is printing a storybook to raise money. The print shop charges \$3 for each book, and \$45 to create the film. How many books can the club print if their budget is \$525?

Solve the equation. Check your solution.

6. $8p + 4 = -20$

7. $-\frac{p}{14} + 9 = 13$

Solve the equation.

11. $\frac{25x}{5} - 7x = 12$

12. $4n - 2(3 - n) = -13$

13. $\frac{1}{4}(y + 3) = 7$

14. $\frac{x}{2} + \frac{x}{4} = 5$

15. $0 = \frac{8}{11}h - 32$

16. Which equation below has no solutions?

- A. $10(x + 3) + 8 = 18x + 30$
- B. $16n - 20 = 4(5n + 1)$
- C. $12(c + 3) - 30 = 12c + 36$
- D. $4(6a + 3) = 6(4a + 2)$

17. Solve for F : $C = \frac{5}{9}(F - 32)$

18. Solve for s in the equation $-5 = t + 4s$.

19. Solve for p : $-6p - q = p + 5q$

20. Solve for t in the equation $B = 9s^2t$.

21. Solve for v in the equation $t = \frac{u + v}{v}$.

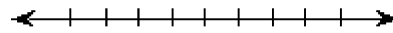
22. Consider the equation $6x + 3y = 24$.

a. Solve for x .

b. Find x when $y = 2$.

23. Solve the inequality. Then graph your solution.

$$6x - 5 < 25$$



Solve the absolute value equation.

24. $|x - 2| = 5$

Solve the absolute value inequality.

25. $|b - 5| < 2$

26. If the pattern is continued, how many white triangles will be in Figure 7?

