Name: _____ **Hour:** _____ **ID: Practice**

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 $a = -3$.

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 as a one-time set-up fee. How many books can the club print if their budget is $525?

Solve the equation. Check your solution.

6. $8p + 4 = -20$

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

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? Write and solve an equation to answer the question.

9. Solve the equation. $-3x + 5 = 7x + 8$

10. Solve the equation. $5(3 - 4x) = 7 - (4 - x)$

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 $B = 9s^2t$.

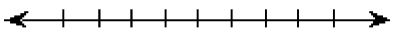
21. Solve for v in the equation $t = \frac{u+v}{v}$.

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?