

CH 2 Part 1 Practice Test

#1 Simplify the following expressions:

a. $4x + 5x^2 - 8x + 12x^2$

b. $5c - 2(8 - 3c)$

c. $15 - 3w + 5(2w+3)$

#2-11, Solve the following equations.

2. $-4x = 12$

3. $b - \frac{4}{5} = \frac{1}{3}$

4. $3x - 7 = 23$

5. $-4 - \frac{x}{9} = -8$

6. $-10 = -7 + 4 + \frac{1}{2}x + x + 3$

7. $4(6-2) + 3 = 2(x+1) - x$

8. $-7w + 10 - 4w + 8 = 15$

9. $\frac{2-3r}{7} = 8$

10. $-5(k+3) = 2(3k-9)$

11. $9x - 8 + 3x = 14x + 10 - 2x$

#12-14, Solve for the indicated variable.

12. $Prt + 3 = I$ for r

13. $2w + 2L = P$ for w

14. $V = \frac{d}{t}$ for t

#16-18, Solve each inequality AND graph solutions on a number line.

16. $-3x + 5 > 17$

17. $7m + 3 \leq 4m - 12$

18. $-\frac{3}{5}w < 6$

#19-20, Solve each proportion.

19. $\frac{3}{7} = \frac{w}{11}$

20. $\frac{9}{m+4} = \frac{2}{m}$

21. The _____ is the letter that represents a number. The number in front of the variable, being multiplied to it is the _____.

22. Write an expression with 2 terms: