

Name: \_\_\_\_\_ Period: \_\_\_\_\_

Score:

\_\_\_\_\_/\_\_\_\_\_  
\_\_\_\_\_%

## HW 1-7: Multi-Step Equations

Solve each equation. Show your work.

1.  $2n + n + 3(n + 4) = 24$

7.  $4n + 2(n + 10) = 62$

2.  $18 - n = 8n$

8.  $11n + 26 = 13n$

3.  $38 = 3(x + 2) + 5x$

9.  $7d = -42 + d$

4.  $5 - m = m + 9$

10.  $10n - 22 = 6n - 14$

5.  $4m + 2(m + 2) = -8$

11.  $4(x + 4) = 4x - 12$

6.  $3(x - 4) = 3x - 12$

12.  $3x + 1 = 4x + 1$

13.  $3(a+4)-8=4a-5$

18.  $-5(3m+6)=-3(4m-2)$

14.  $6y-17=-9+8y$

19.  $-7(k+9)=9(k-5)-14k$

15.  $-2(x+4)-9=-2x-17$

20.  $10p-2(3p-6)=4(3p-6)-8p$

16.  $5(x+4)+3x=4x+8$

21.  $12(x+3)=4(2x+9)+4x$

17.  $\frac{1}{2}r+2\left(\frac{3}{4}r-1\right)=\frac{1}{4}r+6$

22.  $0.2(x+50)-6=0.4(3x+20)$

23. Is  $m = -22$  the solution for  
 $7 - 2(m + 4) = 3m - 16$

24. Is  $r = 13$  the solution for  
 $4(3r - 4) = 2(7r + 5)$

25. Is  $x = \frac{5}{4}$  the solution for  
 $3x + 7 = 17 - 5x$