HW 1-7

Int 2   Multi-Step Equations & Inequalities – COMBO DAY   **Unit 1**

Solve. Give the exact value of the variable (Leave as a fraction in simplest form or as a whole number. NO DECIMALS) Graph the solution set for inequalities.

1. $-9z = 21 - 3z$

6. $8 + 44g - 28 = 54$

2. $21 - 13 + 10r = 12r + 9r - 2$

7. $\dfrac{8n - (-2)}{-6} = 9$

3. $-14c - 7 > -c + 19$ $\longleftarrow\hspace{3cm}\longrightarrow$

8. $23d - 12 = 51d + 20$

4. $-5(3 - 6x) = 21 - 3(4x - 2)$

9. $4k - 23 = -5(7k - 11)$

5. $18k - k + 9 = 7k - 5 + 14$

Determine whether the solution given for the equation is correct. If the given solution is not correct, solve to find the correct solution.

10. Solution: p = -9
Equation: $8p = 45 + 13p$

11. Solution: $a = \dfrac{17}{3}$
Equation: $26 - 6a = -42 + 18a$

12. Solution: n = 13
Equation: $17n - 90 = 62n$

Solve. Give the exact value of the variable (Leave as a fraction in simplest form or as a whole number. NO DECIMALS.)

13. $-54 + 9h = 21 - 5h$

14. $3(13x + 12) - 60 = 39x + 106$

15. $25 - 8y = -85 + 2y$

16. $18 + 2x = 6x + 2$

17. $-10 - k = -14 + 2k$

18. $3y - 7 = 17 + 7y$

19. $-6z = 14 - z$

20. $12 - 6 + 7r = 2r + 5r - 36$

21. $-5c - 7 < -3c - 37$

23. $-4(2 - 3x) = 7 - 2(x - 3)$

22. $\dfrac{7n + (-5)}{-3} \leq 11$

24. $8k - 2k + 3 = 6k - 3 + 6$