

Name: _____ Period: _____ Score: _____

Sec 1**Unit 1 Review****Unit 1**

Simplify.

1. $8 - 2 \cdot 5 - 3 + 5 \cdot 4$

5. $5^3 - (-8) - 12(-2)$

2. $2 - 3 \cdot 6$

6. $15 - 6 \div 2$

3. $44 \div 11 + 5 \cdot 7 - 5^2$

7. $\frac{-23 - (-15)}{(-18 + 7) - (-5)}$

4. $4 \cdot 9 - 8 + 3$

8. $\frac{(-2)^2 - 3^2}{8 - 3(2)}$

Simplify.

9. $4x - 5 + 7x + 2x - x + 3$

13. $(x - 7)(x + 3)$

10. $-(8x + 3) + 12x$

14. $2x + 5 - 3x - 4x + 2$

11. $4(-6x + 7y) + 10$

15. $3(4x - 3) + 2x$

12. $(x + 5)(x + 2)$

16. $6x - 1 + 5x + 8$

Simplify.

17. $-9(x - 7)$

18. $(a + 7)^2$

Solve for y.

19. $2x + 3y = 9$

23. $2y - 3x = y + 7$

20. $4x - 8y = 12$

24. $3x - \frac{y}{5} = -8$

21. $x - y = 5$

25. $7y - 4 = -2y + x$

22. $4x - y = 3$

26. $\frac{2x}{4} - 5y = -2$

Solve using inverse operations. Be sure to JUSTIFY your steps using Properties of Equality.

27. $-5h = 35$ | Justification

--	--

30. $-18 = x - 5$ | Justification

--	--

28. $26 - m = 11$ | Justification

--	--

31. $15d - 6 = 18 + 7d$ | Justification

--	--

29. $4(5x - 6) > -24$ | Justification

--	--

32. $\frac{k}{5} \leq 11$ | Justification

--	--

Solve using inverse operations.

33. $-3(2x - 9) = 2 - 5(3x + 7)$

34. $12x - 16x = 27$

Solve using inverse operations.

35. $2(15x - 10) - 4(16x + 10) = 8$

38. $4(z - 3) + 3(2z + 5) < -7$

36. $5(2x + 3) + 6x = -17$

39. $-9t + 4(t - 2) \leq t - (6 + 5t) + 9$

37. $20 - 5x \geq 17 - 2x$

40. $\frac{3}{5}m + 2 > \frac{1}{3}m$

41. Jan noticed at the store that a sweater costs \$3.95 more than a shirt. She bought 3 shirts and 2 sweaters and the total cost (before tax) was \$71.65. What is the price of a sweater? What is the price of a shirt?

42. Luigi purchased three pairs of shoes and two pairs of boots for \$130. If a pair of boots is five dollars less than the price of shoes, determine the price of a pair of boots.

Solve for c .

43. $cx + by = d$

44. $\frac{1}{3}ct = p$

Solve for m .

45. $hm + y = w$

46. $u(m + e) = v$