

Name _____

Period _____

Expressions and Equations Review

Write as expressions:

1. one fourth the total of y and 18
2. -16 less than k is 4
3. 3 times the sum of -4 and m is 10
4. 21 decreased by twice a number p

Simplify each expression:

5. $-2(v^2 - 3v) - 7v$

6. $6p + 10g - 12g + 6g - 7p$

7. $9 - 3(x + 4)$

8. $5(3x - 2) - 6(x - 3)$

Solve each equation. Show all steps.

9. $19 = 5w + 13 - 7w$

10. $25 = -5(t + 9)$

11. $50 + 3y - 10 + 3y = 64$

12. $42 = \frac{3m}{4} + 9$

13. Three dollars more than four times the price is \$51.

14. $-27 = -3(c + 11)$

15. $4n = 4n - 28 + 2n$

16. $-43 - 3t = 7t + 37$

Define the variable. Write and solve an algebraic equation for the following situations:

17. Five family members and you went to Great America. You did not have season passes, but you did have a coupon that takes \$25 off the total price. You also bought a family food pass for \$108. You end up paying a total of \$230. How much was each Great America ticket that day?

18. Candy-grams were being sold at lunchtime. On Monday, Jerome bought four candy-grams. On Tuesday he bought nine more. He spent a total of \$16.25. How much was each candy-gram?

19. Given the diagram of the pentagonal room. Two sides are missing their lengths. The total perimeter of the room is 60.25 feet. How long is each missing side length?

