

**4-2 Practice*****Simplifying Algebraic Expressions***

Identify the terms, like terms, coefficients, and constants in each expression.

1.  $6y - 4 + y$

2.  $8u + 2u - 3u$

3.  $-12h + 5g + 8 - g$

4.  $-21w + 5 + 3w - 1$

5.  $8a + b - 3a + 4b$

6.  $f - 3fg + 2g - fg + 1$

Simplify each expression.

7.  $-8q + 6 + 5q - 3$

8.  $h + 5h - 3 - 6h$

9.  $2a - 5(a + 1)$

10.  $b - 2(b - 2)$

11.  $9 - t - 3(t + 3)$

12.  $-8 + 5(g + 2) - 2$

13.  $12m + 9 - 2m - 16$

14.  $4(y - 3) + 9 - 3y$

15.  $r + r + r + r + r$

16.  $-11x + 4 + 8x - 4 + 3x$

17.  $-14y + 12(x + y) - 12x$

18.  $19g - 4h + 4 - 20(g - 1)$

19.  $-5(c + d) - 4d + 5c - d$

20.  $(8 - b)(-3) + 6b + 12 - 10b$

21.  $-p + q + 2(p + q) - p - q$

22.  $-55n + 28n + 21n + 7n - n$

23.  $-12z + 4(z - 9) + 30 + z$

Write an expression in simplest form that represents the total amount in each situation.

24. **LUNCH** You bought 3 pieces of chicken that cost  $x$  dollars each, a salad for \$3, and a drink for \$1.

25. **SOCCER** Sal has scored  $g$  goals this season. Ben has scored four times as many goals as Sal. Chun has scored three fewer goals than Ben.