

Name: _____ Period: _____ Date: _____

Algebra Quiz 1 Review

1. Identify the following in the expression $4x + 7 - 2xy + y$

Coefficients: _____ Constants: _____

How many terms does the expression have? _____

2. Evaluate the expression $-2x + 8 + 5y - (-1)$
when $x=-5$ and $y=4$.

3. Evaluate the expression $4x - x^2 - 2y$
when $x=-3$ and $y=-1$.

4. Evaluate the expression $6 - 8^2 + 5 - (-3^2)$

5. Evaluate the expression $5 - 2|-2(3) + 4|$

6. Simplify the expression $4a + 7b + b - 3a$.

7. Simplify the expression $3 - (4x - 7)$

8. Simplify: $5 - 2(6x - 1) + 6x(-2 - 3x)$

9. Simplify: $3r^2s + 3r^2 - sr^2 + 8rs^2 + s^2$

For questions 10-15, translate each sentence into algebraic expression, equation, or inequality.

10. *Five less than the product of three and a number* _____

11. *Six times the difference of a number and two is at least seven* _____

12. *The quotient of a number squared and eight is equivalent to ten* _____

13. *Ten less than a number is less than the sum of three and the same number* _____

14. *A textbook subscription costs \$20 for the first copy, and \$18 for each additional copy* _____

15. *Michael's age is at least three more than twice Alex's age* _____

Yes, you can use two different variables