

Algebra Review Worksheet

Name: _____ Class Period: _____

Simplify each expression:

1. $8p + 4p$

2. $k - 8 - 5$

3. $8n - 4n$

4. $-1 + 3(1 - 6x)$

Solve each equation for the given variable:

5. $2 = -3n - 4 + n$

6. $r - 1 + r = 3$

7. $8 = 4x - 6x$

8. $-2 = 7(-8 + 2x)$

9. $\frac{x}{7} = \frac{2}{4}$

10. $\frac{a}{10} = 9$

Solve each inequality and graph its solution on a number line:

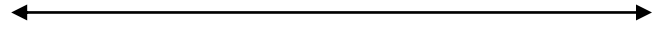
11. $r - 6 \geq -16$

12. $x + 7 \geq 4$



$$13. \frac{v}{7} > -10$$

$$14. 4 - 2x < 8$$



Simplify the expression using order of operations:

$$15. 2[3(2 - 5)^2 + 6] - 1$$

$$16. \frac{8^2 - 6(4)}{2(5)} - 4$$

$$17. 3 \cdot 6 + 9 \div 3 - 6$$

$$18. 125 \div [1(2 + 3)^2]$$

Evaluate each expression:

$$19. m + p + p^2 \text{ if } m = 8 \text{ and } p = -6$$

$$20. x + \frac{xy}{6} \text{ if } x = -4 \text{ and } y = 9$$
