

Practice 2-2

Simplifying Expressions

Simplify each expression.

1. $12 - \frac{2}{3}m + 4 - \frac{3}{4}m$

2. $a - 2 + 13 + 8a$

3. $10q - 2q + 3 - 9$

4. $8 - g - 2 + 5g$

5. $2.2k + 5 + 7.9k + 8$

6. $-4r - 2r - 6 - 4$

7. $0.2(15 - 3t) - 1.8$

8. $7x - 5(3x + 12)$

9. $\frac{1}{3}(9z - 27) + 12$

Factor each expression completely.

10. $42r - 18$

11. $100 - 50d$

12. $24x + 64$

13. $-9y - 39$

14. $60 - 24x$

15. $9w - 81$

16. $132 + 77t$

17. $16y - 56$

Use $>$, $<$, or $=$ to make each statement true.

18. $-4 + p + 2$ $4p + 2 \cdot 4 - 3p$ _____

19. $2m + 2n - 5$ $6 + 2(m + n) - 11$ _____

20. $3x + 4 - 4x + 2$ $3(5 - x) + 2x$ _____

21. Find the perimeter of a rectangle with length $3c - 5$ and width $2c$. Simplify your answer.
