

3.1 Practice A

Identify the terms and like terms in the expression.

1. $-4y + 7 + 9y - 3$

2. $3n^2 - 1.4n + 5n^2 - 6.4$

3. $\frac{1}{2}b^3 - b^3 + 2b$

Simplify the expression.

4. $-15m + 9m$

5. $8k - 2(4 - 3k)$

6. $3.2 - 9x + 7.1 - 3x$

7. $25 - 6x - 12 - 2x$

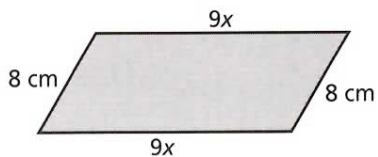
8. $19a - 7 - 3a + 12a$

9. $\frac{5}{2}(6x - 7) + \frac{4}{3}(2 + 9x)$

10. $\frac{1}{8}h + 7 - \frac{3}{4}h$

11. $\frac{2}{3}y + 5 - 3 - \frac{11}{12}y$

12. Write an expression in simplest form that represents the perimeter of the polygon.



13. Each runner is carrying an 8 ounce bottle of water, a 2.1 ounce energy bar, and a 3 ounce energy drink. Write an expression in simplest form that represents the weight carried by y runners. Interpret the expression.
14. John weighs 65 kilograms, Sam weighs $22x$ kilograms, and Mark weighs $13x$ kilograms. Write an expression in simplest form for their combined weight.
15. Are the expressions $8a^2 - 4b + 7a^2$ and $5(3a^2 - 2b) + 6b$ equivalent? Explain your reasoning.