

Lesson 4-1: Write and Solve Algebraic Expressions

1. Sample answer: Algebraic expressions are used to represent situations with unknown or variable values, and can be solved when the variable values are known.
2. Sample answer: A constant term does not change. A variable term changes in value whenever the value of the variable changes.
3. Sample answer: The values of the variables in an algebraic expression can change, so the expression can have many different values.
4. $35 - 0.25m$
5. $0.68w + 3.25t$; \$28.83
6. -4.35
7. 4
8. 2; 3
20.4
48.6
9. $\frac{1}{4}$
 $\frac{1}{8}$
 $\frac{4}{8}$ or $\frac{1}{2}$
10. 6; 2
11. -0.4
12. 1.4
13. $3\frac{6}{15}$ or $3\frac{2}{5}$
14. $33\frac{14}{18}$ or $33\frac{7}{9}$
15. $3.25g + 0.74f$
16. A
17. 42 feet below sea level
18. $3,000 - 3.5s$
19. Sample answer: It has to be greater than 1.
20. a. $2.85g + 3.15c$
b. B
21. Sample answer: $73 - 1.5$