## UNIT 1 • RELATIONSHIPS BETWEEN QUANTITIES AND EXPRESSIONS
## Lesson 3: Interpreting Formulas and Expressions

### Scaffolded Practice 1.3.1

**Example 1**

Simplify the expression $2(3 + x) + x(1 - 4x) + 5$, then identify each term, coefficient, and constant, and name the factors of each term of the polynomial.

1. Simplify the expression.

2. Identify each term in the simplified expression.

3. Identify any factors of the non-constant term(s).

4. Identify any coefficients of the non-constant term(s).

5. Identify any constant terms.

*continued*

**Example 2**

A smartphone is on sale for 25% off its regular price. The sale price of the smartphone is $149.25. What expression can be used to represent the regular price of the smartphone? Identify each term, the constant term, and the factors and coefficients of the terms that contain a variable.

**Example 3**

Helen purchased 3 books from an online bookstore and received a 20% discount on her total order. Each book cost the same amount. The shipping cost was $10 and was not discounted. Write an expression that can be used to represent the total amount Helen paid for 3 books plus the shipping cost. Simplify the expression, and then identify each term, the constant term, and the factors and coefficients of the terms that contain a variable.