UNIT 1 • RELATIONSHIPS BETWEEN QUANTITIES AND EXPRESSIONS

Lesson 3: Interpreting Formulas and Expressions

Instruction

Lesson 1.3.2: Adding and Subtracting Polynomials

Georgia Standard of Excellence

MGSE9-12.A.APR.1

Warm-Up 1.3.2 Debrief

1. a = 5, b = 12, and c = 20

Recall that the perimeter of a triangle = a + b + c.

Replace the values of a, b, and c in the formula for perimeter.

perimeter = a + b + c

perimeter = 5 + 12 + 20

perimeter = 37

Simplify.

The perimeter is 37 feet.

2. a = 8, b = x, and c = 15

Replace the values of *a*, *b*, and *c* in the formula for perimeter.

perimeter = 8 + x + 15

perimeter = 23 + x

Combine like terms.

The perimeter is (23 + x) feet.

3. a = x, b = 1, and c = 6

Replace the values of *a*, *b*, and *c* in the formula for perimeter.

perimeter = x + 1 + 6

perimeter = x + 7

Combine like terms.

The perimeter is (x + 7) feet.

Connection to the Lesson

- Students will extend their understanding of finding sums and differences to finding sums and differences of polynomial expressions.
- Students will substitute given values for the variables in formulas.