Math 2

Assessment Title: Irrational and Rational Numbers and Area and Perimeter Unit 1: Expanding the Number System

Learning Targets:

- Adding and multiplying two rational numbers results in a rational number.
- The result of adding a rational number and an irrational number is an irrational number.
- The result of multiplying a non-zero rational number to an irrational number is an irrational number.
- 1. Write three rational numbers.
- 2. Explain what a rational number is in your own words.
- 3. Write three irrational numbers._____
- 4. Explain what an irrational number is in your own words.
- 3. This rectangle has sides lengths a and b.

Decide if it is possible to find a and b to make the statements below true.

If you think it is possible, give values for a and b.

If you think it is impossible, explain why no values of a and b will work.

a. The perimeter and area are both rational numbers.

b. The perimeter is a rational number, and the area is an irrational number.

c. The perimeter and area are both irrational numbers.

d. The perimeter is an irrational number, and the area is a rational number.

