## Unit 6 Lesson 10: Percent Error

### 1 Number Talk: Estimating a Percentage of a Number (Warm up)

#### Student Task Statement

Estimate.

25% of 15.8

9% of 38

1.2% of 127

0.53% of 6

0.06% of 202

### 2 Plants, Bicycles, and Crowds

#### Student Task Statement

1. Instructions to care for a plant say to water it with $\frac{3}{4}$ cup of water every day. The plant has been getting 25% too much water. How much water has the plant been getting?
2. The pressure on a bicycle tire is 63 psi. This is 5% higher than what the manual says is the correct pressure. What is the correct pressure?
3. The crowd at a sporting event is estimated to be 3,000 people. The exact attendance is 2,486 people. What is the **percent error**?

### 3 Measuring in the Heat

#### Images for Launch



#### Student Task Statement

A metal measuring tape expands when the temperature goes above $50^{∘}F$. For every degree Fahrenheit above 50, its length increases by 0.00064%.

1. The temperature is 100 degrees Fahrenheit. How much longer is a 30-foot measuring tape than its correct length?
2. What is the percent error?



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