

NAME \_\_\_\_\_

DATE \_\_\_\_\_

**Module 6** Solving Absolute Value Equations  
and Inequalities

**Lesson 5** Solving Problems Using Absolute  
Value Equations and Inequalities



**guided  
practice**

**Set 1**

1. The ideal total weight of a full box of cereal is 17 ounces. An inspector accepts a box if its weight is less than 0.5 ounce away from the ideal total weight. What is the range of acceptable weights?
2. At a bakery a machine pours out 55 g of flour. The machine is designed to be off by at most 1.2 g. What is the range of possible weights?
3. Two sisters were born exactly two years apart. If one girl is twelve years old, how old is her sister?

4. To test the accuracy of a gas pump, an inspector fills a 5-gal (640-oz) container, then records the reading on the gas pump's gauge. If the reading is more than 3.3 oz from 5 gal, the pump should be repaired. What readings call for the pump to be repaired?
5. A carnival worker claims to be able to guess your weight, never being off by more than 4 lb. For what weight guesses is the worker wrong if a person actually weighs 170 lb?

