

NAME \_\_\_\_\_

Module 12 Attributes and Tools  
Lesson 5 Measurement: Weight and Mass

### Lesson Objectives

- Demonstrate how to read a scale and a balance.
- Determine when to and how to measure customary weight.
- Determine when to and how to measure metric mass.
- Determine which unit of measure or measurement tool matches the context for a problem situation involving weight and mass.
- Solve real-world problems involving weight and mass.

### Subtopic 1 Using a Scale

A \_\_\_\_\_ is an instrument used to measure weight and mass.

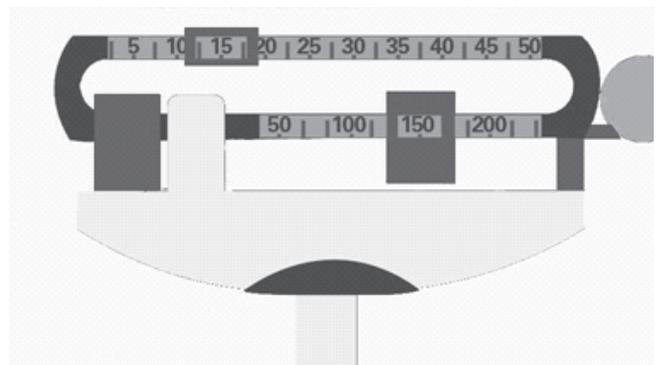
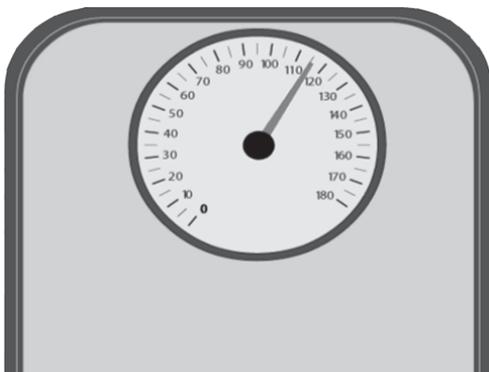
Since gravity is assumed constant on Earth, the terms \_\_\_\_\_ and \_\_\_\_\_ are often used interchangeably.

In \_\_\_\_\_ calculations, mass and weight \_\_\_\_\_ be used interchangeably.

Balance Scale

- Compares the weights of \_\_\_\_\_ objects or \_\_\_\_\_ sets of objects
- When the weights are \_\_\_\_\_ the scale balances.

★ 1 Give the weight shown by each scale.



- 2 Which is heavier: the orange or the banana?  
Explain the answer.



- 3 The scale shown is balanced. How many balls are needed to balance 12 blocks?



### Subtopic 2 Customary Weight

- 4 Which weighs more: a bag of 13 oranges weighing four ounces each or one bag of tangerines weighing four pounds?

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- 5** An airline allows passengers to have up to 40 pounds of carry-on baggage. Saul's three bags weigh 17 pounds, nine ounces; nine pounds, six ounces; and 13 pounds, two ounces. Is Saul's baggage over the airline's 40-pound limit?

**Subtopic 3**   **Metric Weight**

- 6** A bag contained 2.2 kilograms of flour. Ming took out 300 grams of flour. What is the mass of the remaining flour?