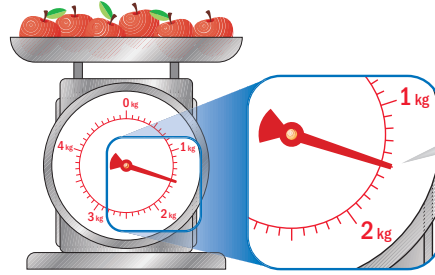


**Mass** Mass is the amount of matter that an object has. The **gram (g)** is the basic metric unit of mass. Two other metric units of mass are the **milligram (mg)** and **kilogram (kg)**.

### EXAMPLE 2 Measuring Mass

Find the mass of the apples.



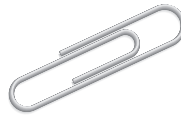
Each kilogram is divided into tenths, so the mass of the apples is 1.5 kilograms.

You can use the following benchmarks to estimate mass.

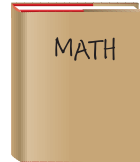
**1 milligram**  
grain of sugar



**1 gram**  
small paper clip



**1 kilogram**  
textbook



### EXAMPLE 3 Using Metric Units of Mass

**Copy and complete using the appropriate metric unit:**  
The mass of a CD is 16 ?.

The mass of a CD is greater than the mass of 16 grains of sugar (16 mg), and it is less than the mass of 16 textbooks (16 kg). Because a good estimate for the mass of a CD is 16 paper clips, the appropriate metric unit is grams.

**ANSWER** The mass of a CD is 16 grams.

### Your turn now Complete the following exercise.

1. Estimate the thickness of this textbook in centimeters. Then use a metric ruler to check your estimate.

**Copy and complete using the appropriate metric unit.**

2. The mass of a baby is 4 ?.
3. The mass of a tack is 200 ?.