Unit 5, Lesson 10

Multi-Step Measurement Problems

Let's solve multi-step measurement problems.

Warm-up

Notice and Wonder: Distances Traveled

What do you notice? What do you wonder?

animal	distance traveled in a day
three-toed sloth	30 meters
snail	2,500 centimeters
dromedary	40 kilometers
giant tortoise	300 meters

Activity 1

Long Hikes, Short Hikes

Here are estimates of the farthest distances some animals travel in one day.

animal	distance traveled in a day
three-toed sloth	30 meters
snail	2,500 centimeters
dromedary	40 kilometers
giant tortoise	300 meters

1. Put the animals and their travel distances in order, from shortest to longest. Explain or show your reasoning.

2. Do you agree with each statement? Explain your reasoning.

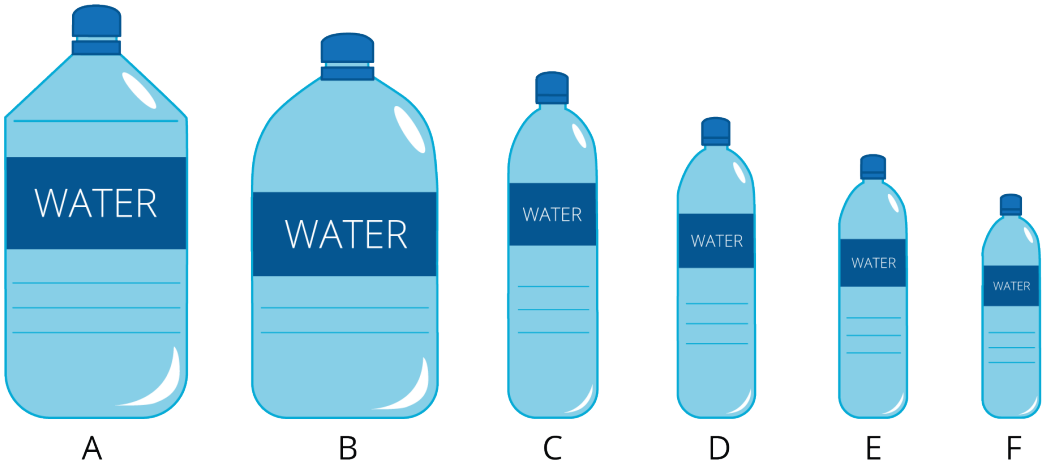
   a. A giant tortoise can travel 10 times as far as a three-toed sloth can travel in a day.

   b. A dromedary can travel 80 times as far as a giant tortoise can travel in a day.

Activity 2

Big Bottles, Little Bottles

Here are 6 water bottles arranged from largest to smallest size.



Here are four clues about the amount of water each bottle holds.

- One bottle holds 350 mL.
- A bottle in size B holds 5 times as much water as the bottle that holds 1 L.
- The largest bottle holds 20 times the amount of water in the smallest bottle.
- One bottle holds 1,500 mL, which is 3 times as much water as a bottle in size E.

Use the clues to find out the amount of water, in milliliters, that each bottle size holds.

A: _____ mL

B: _____ mL

C: _____ mL

D: _____ mL

E: _____ mL

F: _____ mL