Assessment : Section B Checkpoint

Problem 1

Goals Assessed

- Convert from larger units to smaller units within a given system of measurement.
- Understand the relative sizes of kilometers, meters and centimeters, liters and milliliters, kilograms and grams, and pounds and ounces.

Statement

How many ounces are there in 5 pounds? Explain or show your reasoning.

Solution

80. There are 16 ounces in 1 pound and $5 \times 16 = 80$.

Problem 2

Goals Assessed

- Convert from larger units to smaller units within a given system of measurement.
- Understand the relative sizes of kilometers, meters and centimeters, liters and milliliters, kilograms and grams, and pounds and ounces.

Statement

Select the longest measurement.

A.   200,000 cm

B.   400 m

C.   3 km

D.   60 cm

Solution

C

Problem 3

Goals Assessed

- Solve multi-step problems involving multiplicative comparison and measurement.

Statement

Tyler is going to the zoo for a field trip. He will stay at the zoo for $3\frac{1}{2}$ hours. The table shows how long Tyler plans to spend at different places.

place	amount of time spent
Monkey and Gorilla Gymnasium	50 minutes
Bird House	25 minutes
Reptile Terrarium	45 minutes
African Safari	1 hour and 10 minutes

Does Tyler have enough time to visit all of these places? Explain or show your reasoning.

Solution

Yes. Sample reasoning: 1 hour and 10 minutes is 70 minutes. All the times together make 190 minutes. 3 hours is 180 minutes and a half hour is 30 minutes so that is 210 minutes.