Section B: Practice Problems

1. Select **all** measurements that are greater than 1 meter.

    A. the width of a paper clip

    B. the length of your math workbook

    C. the width of the classroom

    D. the height of the door in the classroom

    E. the length of a finger

(From Unit 5, Lesson 7.)

2.   a. The Burj Khalifa is a skyscraper in Dubai. It is 828 meters tall. Is that more or less than 1 kilometer? Explain your reasoning.

    b. An airplane flies 9,500 meters above the ground. Is that more or less than 1 kilometer? Explain your reasoning.

(From Unit 5, Lesson 8.)

3.   a. A bottle of water holds 250 milliliters.

        ■ How many of those bottles does it take to make 1 liter?

        ■ How many liters of water does the bottle hold?

b. Jada's backpack weighs 3.5 kg. How many grams is Jada's backpack? Explain or show your reasoning.

(From Unit 5, Lesson 9.)

4. A tuna fish can swim 200 kilometers in a day.

a. The camel travels 40 kilometers in a day. How many times farther does the tuna fish travel than the camel?

b. The giant tortoise travels 500 meters in a day. How many kilometers is that?

c. How many times as far as the giant tortoise does the tuna fish travel?

(From Unit 5, Lesson 10.)

5. The average weight of a newborn baby is 7 pounds and 8 ounces. How many ounces is that?

(From Unit 5, Lesson 11.)

6. Diego said it took him 1,800 seconds to get home from school yesterday. Lin thinks he is exaggerating.

a. It took Diego $\frac{1}{2}$ hour to get home from school yesterday. How many minutes is that? Explain your reasoning.

_____

_____

b. How many seconds is that? Explain or show your reasoning.

c. Was Diego's statement correct or is he exaggerating?

(From Unit 5, Lesson 12.)

7. Han makes sparkling juice by mixing 1.5 liters of juice and 500 milliliters of sparkling water.

a. How many milliliters of sparkling juice did Han make?

b. How many times more juice did Han use than sparkling water?

(From Unit 5, Lesson 13.)

8. **Exploration**

Jada is trying to decide which option will take less time to make a trip. Here are the details.

Option 1 (Fly)

- 30 minutes to get to the airport

- $1\frac{1}{2}$ hours waiting at the airport

- 45 minute flight

- $1\frac{1}{4}$ hours to get to destination

Option 2 (Drive)

- $3\frac{3}{4}$ hour drive

- $\frac{1}{2}$ hour stop for lunch

Which option takes less total time? Explain your reasoning.

_____

_____

_____

_____

9. **Exploration**

There are different hikes leaving from the same location. Here are the distances:

Trail A: 800 m   Trail B: 2.5 km   Trail C: 1,300 m   Trail D: 3 km

   a. Andre hiked a total of more than 3 km but less than 4 km. Which trails might Andre have taken?

   b. Jada hiked more than 2 km but less than 3 km. Which trails might Jada have taken?