

Module 2 Study Guide

Name _____

1. Complete the conversion charts.

Length	
2 km	_____ m
8 km	_____ m
3 km 235 m	_____ m
14 km 10 m	_____ m

Mass	
2 kg	_____ g
10 kg 200 g	_____ g
1 kg 54 g	_____ g
302 kg 2 g	_____ g

Capacity	
2 L	_____ mL
28 L 508 mL	_____ mL
1 L 10 mL	_____ mL
538 L 4 mL	_____ mL

2. A student completed the problem below. Check his work. Explain how you know if each solution is correct or incorrect.

Convert the following measurements

- a. $20 \text{ km} = \underline{20,000 \text{ m}}$
- b. $15 \text{ L} = \underline{150,000 \text{ mL}}$
- c. $34 \text{ kg} = \underline{34,000 \text{ g}}$

3. Find the sum or difference.

a. $293 \text{ km } 41 \text{ m} + 15 \text{ km } 47 \text{ m}$

b. $15 \text{ kg } 22 \text{ g} - 13 \text{ kg } 53 \text{ g}$

c. $200 \text{ L } 59 \text{ mL} + 3,009 \text{ mL}$

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4. Mrs. Cain is training for a triathlon. For the problems below, use tape diagrams, numbers, and words to explain each answer.
- Each day, Mrs. Cain swims at the gym for 1 kilometers and swims at the beach for 2,000 meters. In all, how many meters does Mrs. Cain swim each day?
 - Since Mrs. Cain has started training, she has also been drinking more water. On Saturday, she drank 3 liters 555 milliliters of water. On Sunday, she drank some more. If Mrs. Cain drank a total of 4 liters 455 milliliters of water on Saturday and Sunday, how many milliliters of water did Mrs. Cain drink on Sunday?
 - Since she began exercising so much for her triathlon, Mrs. Cain has been losing weight. In her first week of training, she lost 1 kilograms 430 grams. In the next week of training, she lost 1 kilogram 455 grams. Mrs. Cain now weighs 51 kilograms 460 grams. What was Mrs. Cain's weight, in grams, before she started training? Explain your thinking.