Name \_\_\_\_\_

Date \_\_\_\_\_

1. Complete the conversion charts.

Length			Mass			Capacity	
3 km	m		3 kg	g		4 L	mL
9 km	m		20 kg 300 g	g		48 L 808 mL	mL
6 km 435 m	m		1 kg 74 g	g		2 L 20 mL	mL
12 km 12 m	m		403 kg 4 g	g		639 L 6 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. 24 km = \_\_\_ b. 16L= 16,000 c. 38 kg = \_\_\_

- 3. Find the sum or difference.
  - a. 493 km 43 m + 17 km 57 m

b. 25 kg 32 g – 23 kg 83 g

c. 100 L 99 mL + 2,999 mL



Module 2:

2: Unit Conversions and Problem Solving with Metric Measurement



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- 4. Billy is training for a half marathon. For the problems below, use tape diagrams, numbers, and words to explain each answer.
  - a. Each day, Billy runs on the treadmill for 5 kilometers and runs on the outdoor track for 6,000 meters. In all, how many meters does Billy run each day?

b. Since Billy has started training, he has also been drinking more water. On Saturday, he drank 2 liters 755 milliliters of water. On Sunday, he drank some more. If Billy drank a total of 4 liters 255 milliliters of water on Saturday and Sunday, how many milliliters of water did Billy drink on Sunday?

c. Since he began exercising so much for his half marathon, Billy has been losing weight. In his first week of training, he lost 2 kilograms 530 grams. In the following two weeks of training, he lost 1 kilogram 855 grams each week. Billy now weighs 61 kilograms 760 grams. What was Billy's weight, in grams, before he started training? Explain your thinking.





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