Name _____   Date _____

1. There are 153 milliliters of juice in 1 carton. A 3-pack of juice boxes contains a total of 459 milliliters.

   a. Estimate, and then find the total amount of juice in 1 carton and a 3-pack of juice boxes.

      153 mL + 459 mL ≈ _____ + _____ =_____

      153 mL + 459 mL = _____

   b. Estimate, and then find the difference between the amount in 1 carton and a 3-pack of juice boxes.

      459 mL − 153 mL ≈ _____ + _____ = _____

      459 mL − 153 mL = _____

   c. Are your answers reasonable? Why?

2. Mr. Williams owns gas stations. He sells 367 liters of gas in the morning, 300 liters of gas in the afternoon, and 219 liters of gas in the evening.

   a. Estimate, and then find the total amount of gas he sells in one day.

   b. Estimate, and then find the difference between the amount of gas Mr. Williams sells in the morning and the amount he sells in the evening.

Lesson 21:	Estimate sums and differences of measurements by rounding, and then solve mixed word problems.	
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3. The Blue Team runs a relay. The chart shows the time in minutes that each team member spent running.

   a. How many minutes does it take the Blue Team to run the relay?

Blue Team	Time in Minutes
Jen	5 minutes
Kristin	7 minutes
Lester	6 minutes
Evy	8 minutes
Total	

   b. It takes the Red Team 37 minutes to run the relay. Estimate, and then find the difference in time between the 2 teams.

4. The lengths of 3 banners are shown to the right.
   a. Estimate, and then find the total length of Banner A and Banner C.

Banner A	437 cm
Banner B	457 cm
Banner C	332 cm

   b. Estimate, and then find the difference in length between Banner B and the total length of Banner A and Banner C. Model the problem with a tape diagram.

Lesson 21: Estimate sums and differences of measurements by rounding, and then solve mixed word problems.
Date: 7/5/13

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