

Name _____

Date _____

1. There are 153 milliliters of juice in 1 carton. A three-pack of juice boxes contains a total of 459 milliliters.
- a. Estimate, and then find the actual total amount of juice in 1 carton and in a three-pack of juice boxes.

$$153 \text{ mL} + 459 \text{ mL} \approx \underline{\quad\quad} + \underline{\quad\quad} = \underline{\quad\quad}$$

$$153 \text{ mL} + 459 \text{ mL} = \underline{\quad\quad}$$

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

$$459 \text{ mL} - 153 \text{ mL} \approx \underline{\quad\quad} - \underline{\quad\quad} = \underline{\quad\quad}$$

$$459 \text{ mL} - 153 \text{ mL} = \underline{\quad\quad}$$

- c. Are your answers reasonable? Why?

2. Mr. Williams owns a gas station. 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 actual total amount of gas he sells in one day.

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

3. The Blue Team runs a relay. The chart shows the time, in minutes, that each team member spends 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 actual difference in time between the two teams.

4. The lengths of three banners are shown to the right.

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

Answer Key

1.
 - a. Estimations will vary; 612 mL
 - b. Estimations will vary; 306 mL
 - c. Answers and explanations will vary.
2.
 - a. Estimations will vary; 886 L
 - b. Estimations will vary; 148 L
3.
 - a. 26 min
 - b. Estimations will vary; 11 min
4.
 - a. Estimations will vary; 769 cm
 - b. Estimations will vary; 312 cm;
tape diagram drawn and labeled