

Name: _____

Answer Key

Date: _____

End-of- Module 2 Review

1. Eli is going on a vacation and buys pretzels and carrots to bring in the car. The pretzels weigh 314 grams, and the carrots weigh 453 grams. What is the difference between the weight of the pretzels and the carrots?

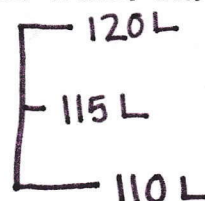
$$\begin{array}{r} 453g \\ - 314g \\ \hline 139g \end{array}$$

Eli's pretzels and carrots
has a difference of 139g

2. Sarai drinks about 115 L of water in one month.

- a. Round to the nearest ten how many liters of water Sarai drinks in one month.

$$115L \approx 120L$$



- b. Use your estimate to find about how many liters of water Sarai drinks in 3 months.

$$\begin{array}{r} 120L \\ 120L \\ + 120L \\ \hline 360L \end{array}$$

Sarai drinks about
360 L a month.

- c. Calculate precisely how much water Sarai drinks in 3 months.

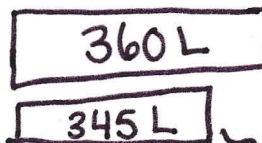
$$\begin{array}{r} 115L \\ 115L \\ + 115L \\ \hline 345L \end{array}$$

Sarai drinks 345 L
in 3 months.

- d. Draw a tape diagram to find the difference between your estimate and the precise calculation. Estimate - 360 L Precise - 345 L

$$\begin{array}{r} 5 \ 10 \\ 360L \\ - 345L \\ \hline 15L \end{array}$$

$$360L - 345L = 15L$$



3. Reagan just went grocery shopping and the weight of one grocery bag is 15 kg.

- a. Reagan lifts 4 bags of the same weight. *Round* to the nearest 10 to estimate the total weight Reagan lifts. Then calculate the number *exactly*.

Rounded

$$15g + 15g + 15g + 15g =$$

$$20g + 20g + 20g + 20g = 80g$$

Precise Calculation

$$\begin{array}{r} 15g \\ 15g \\ 15g \\ + 15g \\ \hline 60g \end{array}$$

Reagan lifts
60g.

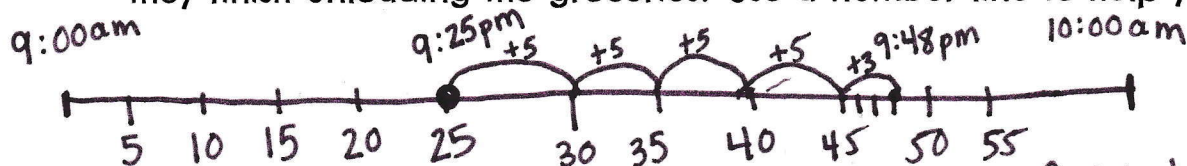
- b. Reagan's friend, Isae, lifts grocery bags of 100 kilograms. Write and solve an equation to show how much more weight Isae lifts than Reagan (in part a).

$$\begin{array}{r} 010 \\ 100 \text{ kg} \\ - 60 \text{ kg} \\ \hline 40 \text{ kg} \end{array}$$

$$\begin{array}{r} 100 \text{ kg} \\ 60 \text{ kg} \\ \hline \end{array}$$

Isae lifts
40 kg more
than Reagan.

- c. Together, it takes Reagan and Isae 23 minutes to unload all of the groceries. If they start unloading the groceries at 9:25 pm., what time will they finish unloading the groceries? Use a number line to help you!



They will finish by 9:48 pm.

4. When driving, Mrs. Bower uses 56 L of fuel every minute.

- a. Round to the nearest ten liters to estimate how many liters of fuel get used every minute.

$$56 \text{ L} \approx 60 \text{ L}$$

Mrs. Bower uses about 60 L.

- b. Use your estimate to find about how many liters of fuel gets used 3 minutes.

$$60 \text{ L} + 60 \text{ L} + 60 \text{ L} = 180 \text{ L}$$

Mrs. Bower uses about 180 L every 3 minutes.

- c. Calculate precisely how many liters of fuel get used every 3 minutes.

$$\begin{array}{r} 56 \text{ L} \\ 56 \text{ L} \\ + 56 \text{ L} \\ \hline 168 \text{ L} \end{array}$$

Mrs. Bower uses
every 3 minutes.

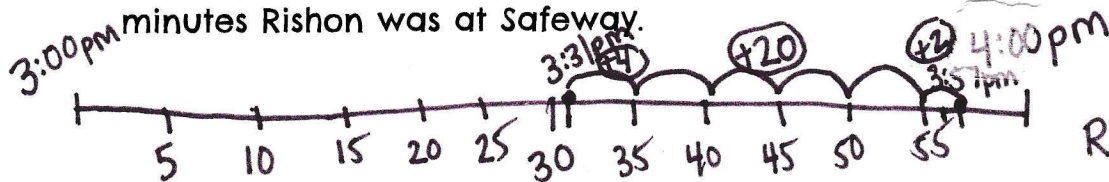
- d. Draw a tape diagram to find the difference between your estimation and precise calculation.

$$\begin{array}{r} 180 \text{ L} \\ 168 \text{ L} \\ \hline \end{array}$$

$$\begin{array}{r} 180 \text{ L} \\ - 168 \text{ L} \\ \hline 12 \text{ L} \end{array}$$

The difference
was 12 L.

5. Rishon goes to Safeway to buy chocolate chip cookies. Yum! He gets to the store at 3:31 and leaves the store at 3:57. Use a number line to determine how many minutes Rishon was at Safeway.



$$4 + 20 + 2 = 26 \text{ min.}$$

Rishon was at Safeway
for 26 min.