

## LESSON 1.3 ACTIVITY I

# Traveling Through Numbers

**Directions:** Complete the steps below.

1. Think of a place you have always wanted to visit within the U.S. Write this in the table below.
2. Use a map or a website such as Google Maps to determine how far your destination is from your school. Write the miles in the table below.
3. Because you want to be safe on your trip, you decide to only drive a total of 12 hours per day. Determine how many days your trip will take and write this in the table below.
4. Now, draw a travel card to see what type of vehicle you will be driving, average gas mileage of your vehicle, and the fuel tank capacity of your vehicle. Write this information in the table below.

### Traveling Through Numbers Checklist

- Departure city \_\_\_\_\_
- Destination city \_\_\_\_\_
- Fuel you began with (assume you had a full tank) \_\_\_\_\_
- Miles to destination \_\_\_\_\_
- Days trip will take \_\_\_\_\_
- Miles traveled each day \_\_\_\_\_
- Miles to gallon used in your vehicle \_\_\_\_\_
- Evidence of the four mathematical operations to be used to find the answer of your problem
- Evidence of estimation strategies used to find an estimated answer, not a precise answer

5. Using the information in Steps 1–4, develop a word problem that estimates how many gallons of gas you would need to make a round trip to your destination that meets all of the criteria listed in the checklist on page 27. Be sure to include your answer to your word problem.
6. Now, swap your word problem with a partner. Your partner will need to determine the best estimation strategies to solve the word problem in order to arrive at the same estimated answer.

**Extend Your Thinking**

1. Ask your parents about a trip you have taken as a family in your family vehicle (or a trip you would like to take if you have not actually gone on one). Write a multistep word problem regarding this trip and trade it with a classmate.

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### Travel Cards

#### **Chevrolet Tahoe**

26-gallon tank

Average of 21 miles per gallon

#### **GMC Yukon**

31-gallon tank

Average of 21 miles per gallon

#### **Ford Expedition**

26-gallon tank

Average of 18 miles per gallon

#### **Subaru Forester**

15-gallon tank

Average of 27 miles per gallon

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# Common Core Assessment Practice

**Directions:** Complete the problems below.

1. Presleigh is playing a video game.
  - After she found the hidden treasure, her score doubled.
  - After she stepped on the lily pad, she lost 10 points.
  - Presleigh's new score is 80 points.

How many points did Presleigh have before she found the treasure and stepped on the lily pad?

- a. 35
- b. 45
- c. 130
- d. 150

2. A waiter earned \$75 on Saturday and \$47 on Sunday. Then, he earned the same amount of money the next weekend. Which statement explains how to find the total amount of money the waiter earned both weekends?
  - a. multiply 75 by 2, then add 47
  - b. multiply 47 by 2, then add 75
  - c. add 75 and 47, then multiply by 2
  - d. add 75 and 2, then multiply by 47

3. Walker earns \$12 for every lawn he rakes. He rakes exactly three lawns each day he works. Walker earned \$288 last month. How many days did Walker work last month?
  - a. 4 days
  - b. 8 days
  - c. 24 days
  - d. 36 days

4. A national park plans to purchase a T-shirt for each of its 1,194 park employees and 783 park rangers. The cost per shirt is \$5. Janet says that it would cost \$18,855 to purchase the shirts. Which expression can best be used to decide whether Janet's answer is reasonable?
- a.  $(700 + 1,000) \times 5$
  - b.  $(800 + 1,200) \times 5$
  - c.  $(780 + 1,190) \times 10$
  - d.  $(800 + 1,200) \times 10$