

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

### *How Much?*

Congratulations! It's the year 2018 and you and two friends have won free tickets off the radio! You have a choice of three destinations: a Pirates game, Kennywood Park, or the Pittsburgh Zoo. You decide to meet at the middle school, ride together, and split the gas, but first you have to figure out how much gas it'll take to drive there and back, and how much this would be per person.

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#### Part One: Miles

First, you must find the distance from New Cumberland to your chosen destination.

Please go to: [www.mapquest.com](http://www.mapquest.com).

Circle which destination you'd like so you can determine how many miles you must travel.

Pirates Game	Kennywood Park	Pittsburgh Zoo
PNC Park	4800 Kennywood Blvd.	7340 Butler Street
115 Federal Street	West Mifflin, PA 15122	Pittsburgh, PA 15206
Pittsburgh, PA 15212		

You decide you want to stop in Weirton on the way there to eat at DeeJay's. *Using MapQuest and the addresses below*, how far is it from the middle school to DeeJay's? Use the shortest route possible.

Convert this decimal to a simplified fraction.

Oak Glen Middle School	DeeJay's
39 Golden Bear Drive	380 Three Springs Drive
New Cumberland, WV 26047	Weirton, WV 26062

1. Fraction: \_\_\_\_\_ miles                      Decimal: \_\_\_\_\_ miles

*Using MapQuest and the addresses above*, how far is it from DeeJay's to your destination? Convert this decimal to a simplified fraction.

2. Fraction: \_\_\_\_\_ miles                      Decimal: \_\_\_\_\_ miles

Add these two distances together to determine how many miles you must travel to your destination. Be sure to write this in both simplified fraction and decimal form.

3. Fraction: \_\_\_\_\_ miles                      Decimal: \_\_\_\_\_ miles

Final Answer for Part One:

We will travel \_\_\_\_\_ miles to get to our destination.

## Part Two: Gas Mileage

Next, you will need to determine the gas mileage of your vehicle. Please go to: [www.fueleconomy.gov](http://www.fueleconomy.gov).

Choose any vehicle you like, and find its gas mileage in miles per gallon *using the Fuel Economy website*. Use the *Combined* category.

5. A \_\_\_\_\_ will get \_\_\_\_\_ miles per gallon.

Divide your miles per gallon from #5 into the number of miles you will have to travel (the number you found in #3) in order to find how many gallons you will use on your trip. Write this number in both fraction and decimal form.

For example, if you have to travel 100 miles, and your car gets 20 miles per gallon:

$$100 \text{ miles} \div 20 \frac{\text{miles}}{\text{gallon}} = 5 \text{ gallons.}$$

6. We will use \_\_\_\_\_ gallons to travel \_\_\_\_\_ miles.

Next, determine how much money you will spend on the gas you need to buy. Multiply the amount of gas you need by the estimated gas price of \$\_\_\_\_\_. Write this number in decimal/dollar form.

7. Dollars: \$ \_\_\_\_\_

Final answer for Part Two:

We will need \$ \_\_\_\_\_ in gas money to travel to our destination.

## Part Three: Total Costs

But wait! You haven't returned home yet. How will you determine how much money in gas it will take to return to the school if you return the way you came?

8. We need to (multiply/divide) #7 by 2. (Circle an operation.)

Perform this operation and write the number in decimal/dollar form.

9. Dollars: \$ \_\_\_\_\_

How will you divide up the bill? Remember, three of you traveled to the city! How much do each of you owe? Write this number in decimal/dollar form.

Final answer for Part Three:

Each person owes \$ \_\_\_\_\_ in gas money to travel to our destination.