

## STUDENT MATERIALS

## PART 1 – DATA ANALYSIS PROMPT

## Using a Gas Card to Buy Gas

You and your family are going on a trip and see a gas station where gas costs \$4.00 per gallon. You stop to put gas in the car. You spend \$40 to fill the gas tank. How many gallons of gas did you buy?

Write an addition equation, a multiplication equation, and a division equation in the places below to determine how many gallons of gas your high school brother pumped into the car's tank.

After writing the three equations, select the best one for determining the number of gallons pumped into the tank. Circle that equation.

Finally, support in writing why you chose that operation. Which equation is the most efficient (quickest and easiest) for finding the number of gallons of gas. Explain why you chose that equation.

Equation 1 – Addition

$$4.00 + 4.00 + 4.00 + 4.00 + 4.00$$

$$4.00 + 4.00 + 4.00 + 4.00 + 4.00$$

Equation 2 – Multiplication

$$4.00 \times 4.00 \times 4.00 \times 4.00 \times 4.00 \times 4.00$$

Equation 3 – Division

$$40.00 \div 4.00 = 10$$

In Part 2, on page 6, you will explain why the equation you circled is best? Be sure to explain mathematically why you chose that equation in the space on page 6.



## PART 3 – REFLECTION QUESTIONS

After you have responded to the first two parts on this assessment, please complete the reflection questions below.

1. Do you think you got one of the correct answers? Explain why or why not?

Yes I did multiplication  
was the easiest multiplication  
was the easiest then  
all.

2. Which equation was hardest to write? How did you figure it out?

The hardest was division  
because I did not do division  
so I was the hardest to  
do so I try and I don't do.