

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

**Math Homework 9**

Use this table to answer the following questions. For all problems, show work or explain your thinking.

Number of Gallons of Gas Used	0	2	4	10
Total Miles Driven	0	62	124	310

- Which variable is the **dependent** variable (y), and why?
- Is the number of miles driven proportionally related to the number of gallons of gas? If so, what is the constant of proportionality (k) ?

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

**Math Homework 9**

Use this table to answer the following questions. For all problems, show work or explain your thinking.

Number of Gallons of Gas Used	0	2	4	10
Total Miles Driven	0	62	124	310

- Which variable is the **dependent** variable (y), and why?
- Is the number of miles driven proportionally related to the number of gallons of gas? If so, what is the constant of proportionality (k) ?

c. If the relationship is proportional, what is the equation related gallons of gas to miles driven?

d. How many miles could be driven with 18 gallons of gas?

e. How many gallons are used when the car has been driven 217 miles?

c. If the relationship is proportional, what is the equation related gallons of gas to miles driven?

d. How many miles could be driven with 18 gallons of gas?

e. How many gallons are used when the car has been driven 217 miles?