

Multiplying and Dividing Decimals

Performance Task Objectives

- Multiply a whole number by a decimal
- Divide decimals by whole numbers

Sunshine State Standards

- MA.A.3.2.1
- MA.A.3.2.2
- MA.A.3.2.3
- MA.B.1.2.2

Materials

- Student recording sheet
- Paper and pencil
- Calculator

Student arrangement

- Individual or small group

Task

Present the problem on the student Recording Sheet to your students.

Performance Criteria

- Does the student correctly divide to find the number of gallons needed for the car of his or her choice?
- Does the student correctly multiply to find the cost of gasoline for the car?
- Can the student clearly explain his or her answers?

Name _____

Use the data on the chart below to help you solve this problem.

The distance from St. Louis, Missouri to Atlanta, Georgia is 598.6 miles. The table below shows the average number of miles per gallon for 4 different cars.

CAR	MILES PER GALLON
Saturn	24
Corvette	22
Mustang	28
Jeep	21

1. Suppose you had to make the trip from St. Louis to Atlanta using one of the cars from the chart. Assume gasoline in St. Louis costs \$1.29 a gallon.

Select a car. Find the total number of gallons of gasoline needed to drive the car from St. Louis to Atlanta. **Show your work.** Use your calculator to check your answers.

2. What is the cost of driving the car from St. Louis to Atlanta? **Show your work.** Use your calculator to check your answers.

3. Write an explanation of how you found your answers.