

Middle School 137 - 6th Grade

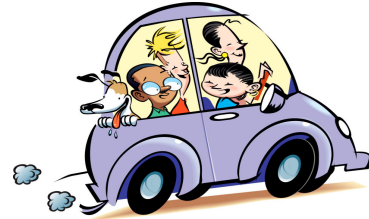
Unit 3 - Unit Rates Benchmark Task

Name: _____

Class: _____

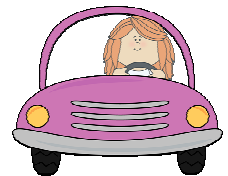
I am looking to buy a new car. I have looked at many of them and I think I have it narrowed down. My choices are a Slissan, a Vonda, or a Koyota. The car prices are all about the same, so that won't really matter. I am more worried about the cost of the fuel. I have asked several friends for their opinions and this is what I found out:

Terri said, "My Vonda is great! My family went on a road trip that was 270 miles and the car used 10 gallons of gas!"



Larry said, "My Slissan is better. My round-trip commute to work is 51 miles and my car only used 3 gallons!"

Susan says, "No way! You should buy a Koyota for sure. It is soooooo fuel-efficient! I was able to drive back and forth to work 8 miles each way for all 5 days last week, and I only had to buy 4 gallons of gas for the whole week!"



Part A: Find the unit rate, in miles per gallon, for each friend's car.

Terri's Vonda	Larry's Slissan	Susan's Koyota

Part B: Cars with a high mpg rating are considered to be very fuel-efficient. Which car is the most fuel-efficient? Explain how you know.

Part C: Some cars are not fuel-efficient at all. For example, they might drive only 36 miles but use up 3 gallons of gas on that short trip! What change(s) could you make to these numbers in order to improve the mpg rating? Explain why your change(s) would improve the mpg rating.

Part D: Which car would you recommend for me and why?