Name _____   Date _____

Quantities and Descriptive Modeling - Guided Lesson

Complete the following problems:

1) Which of the following would save more gas in the long run?

a. Replacing a Honda motorcycle that gets 60 km per liter with a Harley Davidson that gives the mileage of 70 km per liter.

 b. Replacing a Kawasaki Sport Bike that gets 65 miles per liter with a Yamaha sport bike that gets 60 km per liter.

c. Both changes save the same amount of gas.
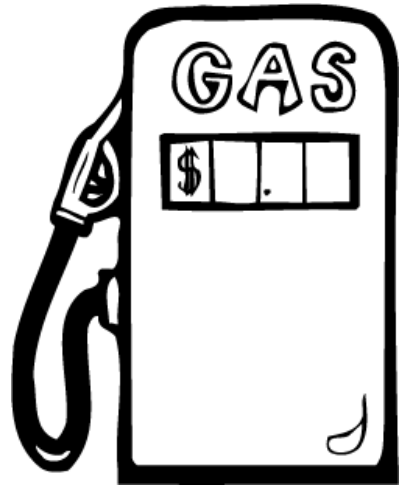
2) Julie is going on an outing. She has to purchase some things. Yesterday she bought some soft drinks. She found different sizes bottles there.

Small –   1 liters for $10

Medium –   3 liters for $25

Large –   7 liters for $45

Julie has $90.00 in her bag. She wants to spend it all on soft drinks. Which size would give her the maximum amount of soft drink with $90.00?

3) Which of the following would save more electricity? Explain.

a. Replacing a Voltas window air conditioner that consumes 3 watts per hour with an Whirlpool window air conditioner that consumes 4 watts per hour.

 b. Replacing a Panasonic split air conditioner that consumes 2.5 units per hour with an LG split air conditioner that consumes 4 units per hour.

c. Both changes save the same amount of electricity.