

### **Answer on Question 71993, Physics, Other**

#### **Question:**

A large truck travels 385 miles on 22 gallons of gas. What is the mileage of the truck in miles per gallon?

#### **Solution:**

We can find mileage of the truck in miles per gallon simply dividing the distance travelled by the number of gallons expended:

$$\begin{aligned} \text{Mileage} &= \frac{\text{distance traveled}}{\text{number of gallons expended}} = \frac{385 \text{ miles}}{22 \text{ gallon}} = 17.5 \frac{\text{miles}}{\text{gallon}} \\ &\approx 18 \frac{\text{miles}}{\text{gallon}}. \end{aligned}$$

#### **Answer:**

$$\text{Mileage} = 18 \frac{\text{miles}}{\text{gallon}}.$$

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