

# Math Problem Exercise

Meets ASE Task: (Not specified by ASE)

Name \_\_\_\_\_ Date \_\_\_\_\_ Time on Task \_\_\_\_\_

Make/Model/Year \_\_\_\_\_ VIN \_\_\_\_\_ Evaluation: 4 3 2 1

- \_\_\_\_\_ 1. Calculate miles per gallon if it required 11.5 gallons to drive 189 miles. Show your work. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- \_\_\_\_\_ 2. Convert  $\frac{2}{3}$  to decimal. \_\_\_\_\_
- \_\_\_\_\_ 3. Find the formula for converting Fahrenheit degrees to Celsius degrees and convert  $66^{\circ}\text{F}$  to Celsius. \_\_\_\_\_  
\_\_\_\_\_
- \_\_\_\_\_ 4. Search on the Internet for a graph showing horsepower and torque. Explain why the two curves cross at 5252 RPM. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- \_\_\_\_\_ 5. If the first gear ratio is 3.06:1 and the final drive ratio is 3.42:1, what is the overall gear ratio? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_