Scientist:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per:\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_

Investigation: Running Drama!

Brian is a track star at Da Vinci Design; he holds the school record for 10 miles in 1.4 hours. Brian has a big international track meet coming up in Spain. Brian is researching his competition, and sees that his main competitor Adam has a record 5 miles in 40 minutes. Should Brian be worried? Use your problem solving skills to determine the speed of each runner, and which runner is the fastest.

**Approach the Problem:** *Think/write individually about how you would approach solving this problem.* Be sure to:

* Identify what the problem is asking.
* List/organize/draw everything important that you know about the problem. What other info do you still need? Include key vocabulary, formulas, important concepts and/or definitions, etc. If anything seems like useless or extra information, note that so it doesn’t confuse you.
* Identify any areas of confusion.

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| Plan how to solve the problem:*A good plan includes a step-by-step description on how you would solve the problem. Explain your thinking in your plan.* | Solve the problem: |
|  |  |

**Justification** for your answer: *Summarize/Explain what your answer means and whether or not it is reasonable.*

“We determined that….

**Challenge Problem**: The price of gasoline this morning was $1.99/gallon. A family is planning a trip out east to visit their daughter, and they estimate the total distance roundtrip to be 2480 miles. What will the gasoline cost for the entire trip? The owner’s manual stated that the car gets 30 Km per gallon.