

## Astronomy Ranking Task: Kinematics

### Exercise #4

**Description:** The following cars travel the indicated distances or reach the indicated speeds in the indicated amounts of time.

- A. the 2015 Dodge Charger SRT Hellcat goes from zero to 60 mph in 3.4 s
- B. the 2004 BMW 5 Series M5 goes from zero to 100 mph in 5.1 s
- C. the 2009 Porsche 9FF GT9 does a quarter mile in 8.7 s

**A. Ranking instructions:** Rank the cars according to their corresponding amounts of acceleration.

Ranking Order: Greatest 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ Least

Or, all of the cars have the same amounts of acceleration. \_\_\_\_\_ (indicate with a check mark)

Or, there is not enough information to determine this. \_\_\_\_\_ (indicate with a check mark)

**Carefully explain** your reasoning for ranking this way:

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