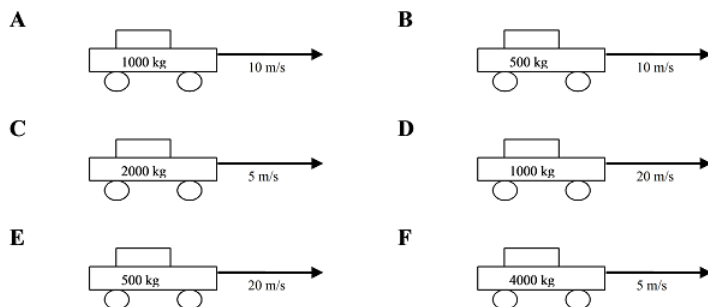


I-113

Below are six automobiles initially traveling at the indicated velocity. The automobiles have different masses and velocities.



a. All automobiles will be stopped in the same amount of time. Rank these automobiles on the basis of the magnitude of the force needed to stop them.

Largest 1. ____ 2. ____ 3. ____ 4. ____ 5. ____ 6. ____ Smallest

____ The ranking can not be determined based on the information provided.

Explain the reason for your ranking:

b. All automobiles will be stopped in the same amount of distance. Rank these automobiles on the basis of the magnitude of the force needed to stop them.

Largest 1. ____ 2. ____ 3. ____ 4. ____ 5. ____ 6. ____ Smallest

____ The ranking can not be determined based on the information provided.

Explain the reason for your ranking:

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