1. A force of 5 N acts on a 2.5 kg object for 10 s. What is the object’s change in velocity?

CLAIM:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Reasoning:

1. If the engine in a 1200 kg car could produce 10,000 N to accelerate from 0 to 27 m/s, how much time would that take?

CLAIM:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Reasoning:

1. That 1200 kg car comes to a stop from 45 m/s in 5 s. What force do the brakes apply?

CLAIM:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Reasoning:

1. How fast must a 9 kg object be moving to have a momentum of -13.5 kgm/s?

CLAIM:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Reasoning: