1. What is the change in momentum of a

3 kg object accelerating from rest to

12 m/s?

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:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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. How much force is exerted on a 3 kg object accelerating from rest to 12 m/s in 15 seconds?

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Reasoning

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Reasoning:

1. What is the impulse of a 4 kg object accelerating from 10 m/s to 12 m/s?

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

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Reasoning:

1. What is the impulse of a 33 kg object accelerating from 30.4 m/s to 12.5 m/s?

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

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Reasoning:

1. A hockey player shoots, exerting a force of 1436.7 N for 0.2 s on the puck. What is the impulse?

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

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Reasoning:

1. A net force of 242.1 N is applied to a wagon for 0.6 s, what is the change in momentum of the wagon?

CLAIM:

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Reasoning