

Last name:

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First name:

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No Name = No grade. Write your name **NEATLY**. If I can't read it, you get **NO** credit.

Circle your section:      810      811      812

Failure to circle the correct section will delay the return of this quiz.

A railroad freight car has mass  $M$  and is moving with constant velocity  $v_0$  along a horizontal track. The freight car collides with a stationary caboose and the two cars couple together. The final speed of the two coupled cars is  $4v_0/5$ . What is the mass of the caboose? Express your answer in terms of  $M$ .

Answer: \_\_\_\_\_