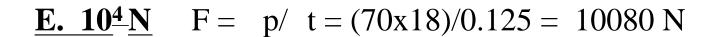
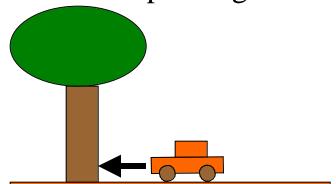
## Q1 - Answer = c Q2 - Problem A - Last name A-K

A 70 kg passenger in a car going 40 mph (18 m/s) crashes into a tree. If it takes the car 0.125 s to stop, what is the average force on the passenger?

- A. 144 N
- B. 560 N
- C. 1260 N
- D. 2800 N





## Q1 - Answer = c

## Q2 - Problem B - Last Name L-Z

An 80 kg passenger is in a car at rest that is struck in the rear by another car. As a result of the collision, which lasts 0.15 s, the struck car moves off at 11 m/s. What was the average force on the passenger?

**A. 5867 N** 
$$F = Dp/Dt = (80 \times 11)/0.15 = 5867 \text{ N}$$

B. 4840 N

C. 132 N



E. 1 N

