

Name \_\_\_\_\_

Movie Pet Peeve \_\_\_\_\_

**Show your work, and circle your answers and use sig figs to receive full credit.**

1. What is the momentum of a 0.145 kg baseball going 32.0 m/s?
2. What is the impulse of a 13.0 N force acting for 3.20 s?
3. What speed does a 0.00820 kg bullet need to go to have 4.64 kg·m/s of momentum?
4. A person running at 4.80 m/s has 317 kg·m/s of momentum. What is their mass?
5. For what time must you exert a 11.2 N force to create 20.0 Ns of impulse?