

Chapter 6 rev d

Show data, diagrams, and work:

1. A 145 g baseball is thrown at 91 mph. The pitcher thrown the ball over a 2.10 m throwing motion. The catcher stops the ball in 22 cm after it hits his glove. A) What force does the pitcher apply to the ball? B) What force does the catcher apply to the ball to stop it?
2. A 20. kg box is pulled across the floor by a force directed along the horizontal. What is that force if the box accelerates at 1.0 m/s^2 ? ... 2.0 m/s^2 ... 3.0 m/s^2
3. A 25 kg box is accelerated at -1.5 m/s^2 . What is the net force?