

Name: \_\_\_\_\_

Class (circle one) AM / PM

1. Jason throws a shot putt, he exerts a force of 140N, if it has an acceleration of  $19\text{m/s}^2$ . What is the mass of the shot putt?

2. Eleena is riding her motorcycle, combined they have a mass of 275 kg. They slow with an acceleration of  $-4.5\text{ m/s}^2$ . What is the force on the bike and Eleena? What is the meaning of the negative sign?

3. You place a 7.5 kg television set on a spring scale. If the scale reads 78.4 N, what is the acceleration of gravity at that location?

4. What is the weight of each of the following object?

a. 113kg hockey puck

b. 108kg football player

c. 870kg car?

5. Find the mass of each of the following weights.

A. 98N

B. 80N

C. 6N