
PHYS 1110 Group Work Sheet
Forces

1. A 0.75-kg bowl of petunias falls at the rate of 9.8 m/s^2 . What is the magnitude and direction of the net force acting on it? (Be mindful that force is a vector.)

2. A blacksmith's anvil has a mass of 45 kg. What is its weight in newtons?

3. What is the magnitude and direction of the force exerted by the table on the anvil?

4. A basket of peaches with a weight of 12.0 newtons sits on a table.

_____ exerts a downward force of 12.0 N on the basket.

_____ exerts an upward force of 12.0 N on the basket.

The basket exerts a downward force of 12.0 N on _____.

The basket exerts an upward force of 12.0 N on _____.

5. Your educated mule argues that there is no point in pulling a cart, because the cart will pull back on him as hard as he pulls on it. What should you tell him?

