

Name _____

Science

Class _____

Date _____

Homework 3-20: Force and review

Answer on a separate paper, show all work!

$$\text{Force} = m \times a$$

1. You hit a basketball (2 kg) which accelerates at a rate of 20 m/s^2 . What amount of force acted on the ball?
2. You give a shopping cart a shove down the aisle. The cart is full of groceries and has a mass of 25 kg. The cart accelerates at a rate of 3 m/s^2 . How much force did you exert on the cart?
3. You push a friend sitting on a swing with a force of 100N. She accelerates at a rate of 5 m/s^2 . Find the mass of your friend in kg (use $m=F/a$).

Final Exam Review

1. In class we learned about two changes physical and chemical, describe each change and give five examples of each.
2. There are three routes of exposure to toxic chemicals: ingestion, inhalation, and absorption through the skin.
 - a. Explain what each route is.
 - b. How can you prevent exposure by each route?