

Mass & Gravity Class Exercises

Physics

1. a) You measure a bag of apples as weighing 85 N on a scale. How massive is the bag of apples?

Weight is another word for the strength of the force of gravity.

$$F_g = 85 \text{ N}$$

$$g = 9.8 \text{ N/kg (assuming we're on earth)}$$

Rearrange the gravitational force equation to solve for mass

$$mg = F_g$$

$$m = \frac{F_g}{g}$$

$$m = \frac{85 \text{ N}}{9.8 \text{ N/kg}}$$

$$m = 8.67 \text{ kg}$$

- b) If you were to carry the bag of apples to the surface of the moon, where the gravitational field is only 1.67 N/kg, how much would the apples weigh?

Solving for the weight means we want to know the force of gravity

$$F_g = mg$$

We need to know the object's mass (g) and the strength of the gravitational field that it is in (g).

$$m = 8.67 \text{ kg (an object's mass always stays the same)}$$

$$g = 1.67 \text{ N/kg}$$

$$F_g = mg$$

$$F_g = (8.67 \text{ kg})(1.67 \text{ N/kg})$$

$$F_g = 14.48 \text{ N}$$

$$\vec{F}_g = 14.48 \text{ N, down}$$

2. a) You weigh yourself on a scale. What does the scale read in Newtons (1 lb = 4.45 N)?

[Answers will vary, depending on your weight. As an example 180 lbs = 801 N]

- b) How much mass do you have?

[for the 180 lb person, $m = 81.73 \text{ kg}$]

- c) If you went to the moon, how much would you weigh?

[for the person who is 180 lb on earth, $F_g = 136.49 \text{ N}$ or 30.7 lbs. $\vec{F}_g = 14.48 \text{ N, down}$]

Practice Problems Gravity Drips

L Darling-Hammond



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