

Problems

4.3 Newton's Second Law of Motion 21.

An object has a mass of 1 kg on Earth. What is its weight on the moon?

- a. 1 N
- b. 1.67 N
- c. 9.8 N
- d. 10 N

22.

A bathroom scale shows your mass as 55 kg . What will it read on the moon?

- a. 9.4 kg
- b. 10.5 kg
- c. 55.0 kg
- d. 91.9 kg

4.4 Newton's Third Law of Motion 23.

A person pushes an object of mass 5.0 kg along the floor by applying a force. If the object experiences a friction force of 10 N and accelerates at 18 m/s^2 , what is the magnitude of the force exerted by the person?

- a. -90 N
- b. -80 N
- c. 90 N
- d. 100 N