# Physical Science Chapter 11 Test Review

- Two children fight over a toy, pulling in opposite directions. The first pulls East with a force of 20N. The second child pulls West with a force of 40N. What is the net force on the toy?
  - a. 20 N West
- 2. A net force will cause an object to
  - a. Accelerate (speed up, slow down, change direction)
- 3. A Newton is a unit of \_\_\_\_\_\_ and is equal to 1 \_\_\_\_\_\_.
  - a. Force; kg-m/s
- Newton's First Law is also called the Law of \_\_\_\_\_\_.
  - a. Inertia
- 5. In order to find the force of an object, you must know its
  - a. Mass and acceleration
- According to Newton's First Law, a book on a shelf will stay put unless
  - a. A net force or unbalanced force acts on it
- According to Newton's First Law, a ball rolling down the street would roll forever. In reality, the ball stops because
  - a. A net force (friction) acts on the ball
- According to Newton's Second Law, force can be increased by
  - a. Increasing mass or increasing acceleration
- A kid stands on a skateboard and throws a baseball to a friend. According to Newton's Third Law, the skateboard will
  - a. Move backwards away from the throw with a force equal to the throw
- A pencil is dropped on the floor. According to Newton's Third Law, the floor and pencil
  - a. Hit each other with equal and opposite forces
- 11. A Ninja karate chops a brick. What is the action force?
  - a. Ninja's hand on the brick
- You and a friend decide to go to Target and have a shopping cart race. When planning your strategy, you decide
  to choose an empty cart because
  - Less mass means less inertia, which makes the cart easier to accelerate (speed up, slow down, change direction)
- 13. Anything with mass has
  - a. gravity
- 14. As you get closer to Earth's surface, the force of \_\_\_\_\_\_\_\_\_becomes stronger.
  - a. gravity
- 15. In a plane, you weigh less because
  - You are farther from earth's surface and gravity is less.
- A soccer player kicks a ball. The reaction force is
  - a. Ball's force on the kicker's foot
- 17. By the year 2050, families will vacation on the moon. While on vacation with your children, you will
  - a. Have the same mass but weigh less
- 18. A \_\_\_\_\_\_ is a unit of weight and a \_\_\_\_\_\_ is a unit of mass.
  - a. Newton, kilogram (or gram, milligram)
- 19. An elephant and his friend the mouse go sky diving together on the moon. Since there is no air resistance, the
  - a. Elephant and mouse hit the surface together

# **Physical Science Chapter Test**

**G** Orfield

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