

Name _____

Date _____

Bill Nye - **Motion**

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True or False? Circle T or F

1. Forces put things in motion. T or F
2. Only objects that are not moving have inertia. T or F
3. Unmoving objects are being acted on by balanced forces. T or F
4. The inertia of a bowling ball is the same as the inertia of a golf ball. T or F
5. The mathematical formula, $F = ma$, says that the amount of force necessary to move two bowling balls is twice the force necessary to move one bowling ball. T or F
6. The mass of an object is measured in grams or kilograms. T or F
7. Newton's Laws of Motion do not apply in outer space. T or F

Multiple Choice: Circle the letter of the best answer

8. Which of the following statements about inertia is correct?
 - A. The more mass a body has, the more inertia it has.
 - B. The more mass a body has, the less inertia it has.
 - C. The amount of inertia a body has is not dependent upon its mass.
 - D. None of the above is correct.
9. Which of the following statements about Newton's Laws of Motion is not correct?
 - A. Objects at rest stay at rest; objects in motion stay in motion.
 - B. The force necessary to overcome an object's inertia depends on its mass.
 - C. When a force acts on an object, the only result is action in the direction of the force.
 - D. All of the above.
10. Which of the following statements about the mass and weight of an object is correct?
 - A. The mass of an object is the same regardless of where it is measured.
 - B. The weight of an object varies with the force with which gravity pulls on it.
 - C. Both statements A and B are correct.
 - D. Neither statement A nor B is correct.