

Name _____

Types of Forces Answer Key

1. Force is a push or pull acting on an object.
2. c) Frictional force
3. The magnitude of the force is 10 N. ($F = m \times a = 5 \text{ kg} \times 2 \text{ m/s}^2 = 10 \text{ N}$)
4. True
5. a) Inertia is the resistance of an object to change its state of motion.
6. The velocity of the car is 16.7 m/s. ($60 \text{ km/h} \times 1000 \text{ m/3600 s} = 16.7 \text{ m/s}$)
7. d) All of the above
8. The relationship is given by the formula: $F = m \times a$
9. The magnitude of the force exerted by the table is 3 N.
10. True