

Name : _____ Grade/Year : _____ Subject : Physics

School's Name : _____ Date : _____ Marks obtained :

Choose the correct answer from 4 options and circle the correct one.

1. The momentum of an object is the product of mass and
 - A. Mass
 - B. Velocity
 - C. Acceleration
 - D. Distance
2. Which has a greater momentum a truck or a car moving with same speed?
 - A. truck
 - B. Car
 - C. zero Momentum
 - D. time
3. Applying a constant force for a longer time increases the change in.
 - A. mass
 - B. Gravity
 - C. Momentum
 - D. Time
4. The change in momentum of an object is equal to
 - A. Gravity
 - B. Impulse
 - C. Time
 - D. Force
5. When a car A hits with a stationary car B, the momentum before the collision of car A is equal to the momentum after the collision of.
 - A. car A
 - B. Car B
 - C. Car A and B
 - D. none of the answers
6. The product of force and time of impact is called
 - A. momentum
 - B. Velocity
 - C. Impulse
 - D. Conservation
7. The momentum of a 500 g cricket ball moving at 30 m/s is
 - A. 12.2 m/s
 - B. 15.0 m/s
 - C. 9.2 m/s
 - D. 10.2 m/s
8. A 99kg rugby player moving 12 m/s collides with a stationary player of 130 Kg and fall together. What speed will the rugby players have after collision?
 - A. 12.2m/s
 - B. 0 m/s
 - C. 9.2 m/s
 - D. 5.2 m/s
9. A 40,000 kg airplane travelling on the runway at a speed of 70 m/s and comes to rest in 5.0 minutes. What is the force exerted on the airplane to bring it stationary?
 - A. 9330 N
 - B. 9500
 - C. 6000 N
 - D. 4,667 N

Name : _____ Grade/Year : _____ Subject : Physics

School's Name : _____ Date : _____ Marks obtained :

Choose the correct answer from 4 options and circle the correct one.

10. A 0.5 kg trolley is pushed at a velocity of 1.2 m/s into a stationary trolley of mass 1.5 kg. The two trolleys stick to each other after the collision. Calculate the velocity of both trolleys after the impact.
- A. 3.0 m/s
B. 0.6 m/s
C. 0.3 m/s
D. 6.0 m/s
11. An object of mass 1000 kg moving at a velocity of 5 m/s on a level surface, collides with and becomes attached to, a stationary object of mass 1500 kg. Calculate the velocity of the two moving objects after the collision.
- A. 1500.0 m/s
B. 0.2 m/s
C. 100.0 m/s
D. 2.0 m/s
12. An object of mass 1000 kg is moving at a velocity of 5m/s on a level surface, collides with a stationary object of mass 1500 kg. After the collision the first object moves with a velocity of 4 m/s, calculate the velocity of the object having mass 1500 kg.
- A. 70.0 m/s
B. 0.70 m/s
C. 0.07 m/s
D. 0.14 m/s