QUIZIZZ Worksheets

Name

Class

Date

Momentum

Total questions: 15

Worksheet time: 11mins

1. Why is momentum considered to be a vector quantity?

   a) Momentum has to indicate both magnitude and direction.

   b) Momentum has to have a positive value.

   c) Momentum has to be calculated using speed.

   d) Momentum has a quantity but not a unit.

2. Which of the following is the formula for momentum?

   a) $p = mv$

   b) $M = mv$

   c) $F = ma$

   d) $g = mc^2$

3. Which of the following is the unit for momentum?

   a) kg·m/s

   b) kg·m

   c) $kg \cdot m/s^2$

   d) Momentum has no unit.

4. The momentum of an object is related to the object's mass and velocity.

   a) True

   b) False

5. An object with a mass of 2000 kg at rest has what momentum?

   a) 2000 kg m/sec

   b) 0 kg m/sec

   c) 2000 kg

   d) 2000 m/sec

6. When the speed of an object is doubled, its momentum

   a) remains unchanged in accord with the conservation of momentum.

   b) doubles

   c) quadruples

   d) decreases

7. The momentum of an object depends upon the object's _____&_____.

a) size and shape
b) mass and speed
c) mass and velocitiy
d) mass and energy

8. Determine the momentum of 1000-kg car moving northward at 20 m/s.....

a) 20000 N
b) 20000 Joules
c) 20000 Kg * m/s
d) 20000 kg * m/s north

9. Momentum is a _____ quantity

a) science
b) scalar
c) vector
d) energy

10. Which of the following has the least amount of momentum?

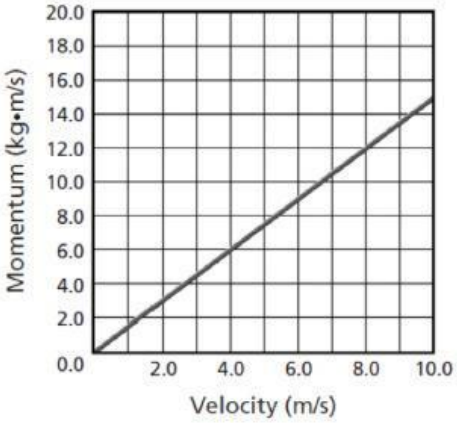
a) An ant walking along the ground
b) An ant at rest
c) An elephant walking
d) An elephant running

11. 

A 50 kg ball rolls down the street at 5 m/s. Calculate the momentum of the ball.

a) 55 kg*m/s
b) 100 kg*m/s
c) 250 kg*m/s
d) 500 kg*m/s

12.



what is the objects momentum for 8 m/s

a) 6

b) 8

c) 10

d) 12

13.

The definition of momentum is

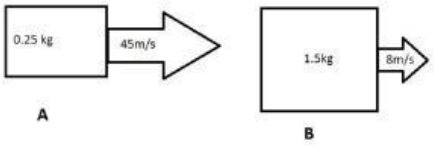
a) Mass in Motion

b) The size of an object

c) The velocity of an object

d) A comparison between two objects

14.



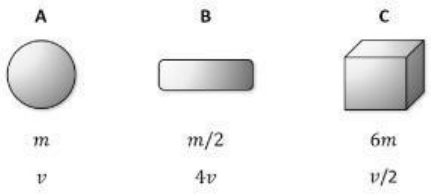
Which of the following images has more momentum?

a) Object A

b) Object B

c) They are the same

15.



Which object has the greatest momentum?

a) Object A

b) Object B

c) Object C

d) cannot be determined