QUIZIZZ

NAME : _____

CLASS : _____

Momentum
20 Questions

DATE : _____

1. What are the two factors that affect the momentum of an object?

speed and velocity

time and mass

distance and displacement

mass and velocity

2. Momentum is a _____ quantity

science

scalar

vector

energy

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

size and shape

mass and speed

mass and velocitiy

mass and energy

4. T/F: A big truck will always have more momentum than a small car.

True

False

5. Which of the following has the largest momentum?

A fly buzzing across the room

A truck parked

A car driving down the road

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

- Momentum has to indicate both magnitude and direction.
- Momentum has to have a positive value.
- Momentum has to be calculated using speed.
- Momentum has a quantity but not a unit.

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

- True
- False

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

- remains unchanged in accord with the conservation of momentum.
- doubles
- quadruples
- decreases

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

- size and shape
- mass and speed
- mass and veloctiy
- mass and energy

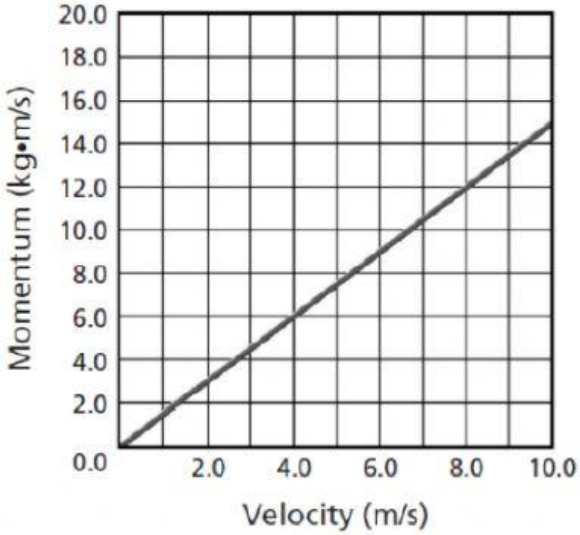
10. When the speed of an object is doubled, its momentum

- remains unchanged in accord with the conservation of momentum.
- doubles
- quadruples
- decreases

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

- An ant walking along the ground
- An ant at rest
- An elephant walking
- An elephant running

12.



what is the objects momentum for 8 m/s

6

8

10

12

13. Which has more momentum: a car stopped at a red light or a bike moving at 15 mph?

car

bike

they are equal

cannot determine using the info provided

14. What is the unit for mass?

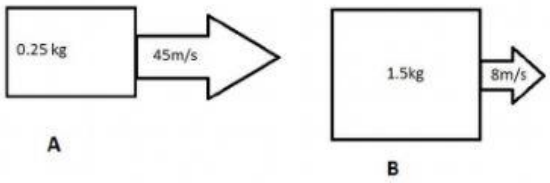
m/sec

kg/sec

kg

kg m/sec

15.



Which of the following images has more momentum?

Object A

Object B

They are the same

16. If two objects have the same mass, then the faster moving object has _____ momentum.

more

less

the same

17. Two identical cars are travelling along EDSA. Car A is travelling at 80 km/hr , while Car B is travelling at 60km/hr. Which of the two cars would have a greater momentum?

Car A

Car B

both have the same momentum

cannot be determined

18. 8. Two identical cars are travelling along EDSA. Which of two cars would have greater momentum?

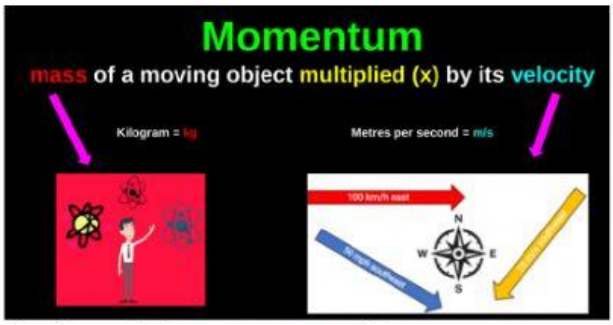
the slower car

the faster car

both have the same momentum

cannot be determined

19.



The formula for momentum is?

mass x speed

inertia x velocity

mass x velocity

20.

Momentum = Mass × Velocity

Momentum _____ of a moving object multiplied by its velocity

momentum

mass

velocity