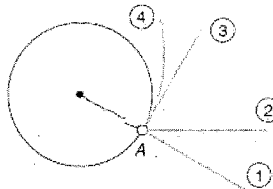


9. C Forces always occur
- When velocities are constant.
  - As single quantities.
  - In pairs.
  - In triplets.
10. A One object has twice as much mass as another object. The first object also has twice as much
- Inertia.
  - Velocity.
  - Gravitational acceleration.
  - Energy.
11. C A force of 1 N accelerates a mass of 1 kg at the rate of  $1\text{ m/s}^2$ . The acceleration of a mass of 2 kg acted upon by a force of 2 N is
- Half as much.
  - Twice as much.
  - The same.
  - None of the above.

12. If an object is swung in a circle, and let go of, how does it travel from the point at which it was released? Which path would the ball take?



Q6 Diagram

PATH 3 - STRAIGHT LINE FROM THE POINT AT WHICH THE OBJECT IS RELEASED.

13. Identify action and reaction forces in everyday situations.

ACTION: TIRES PUSH ON ROAD

REACTION: ROAD PUSHES ON TIRES

NEWTON'S THIRD LAW OF MOTION

For every action, there is an equal and opposite reaction.

ACTION: You pushing on ground

REACTION: Ground pushing on you

Action: tire pushes on road

Reaction: road pushes on tire

Action: rocket pushes on gas

Reaction: gas pushes on rocket

ACTION: FOOT PUSHES ON GROUND

REACTION: GROUND PUSHES ON FOOT

ACTION: GUN PUSHES ON BULLET

REACTION: BULLET PUSHES ON GUN.