

2. Yes, it is possible for the object to be travelling with a non-zero velocity only if it is maintaining constant velocity ~~by~~ travelling in a straight path.

Balanced Force

- The net force vector of the forces acting must be zero.
- Net force is zero.
- The velocity doesn't change over time.

Unbalanced Force

- The net force vector of the forces acting must be non-zero.
- Net force is non-zero.
- The velocity changes over time.

3. The tendency of a body to be in rest or uniform velocity in a straight line unless an external force is applied is called inertia.

4. (i) A train

(ii) A five rupee coin.