

Laws of motion _ Lesson-1

Fill in the Blanks :-

1. To produce a displacement _____ is required.
2. _____ is used to change the speed of car.
3. A man of mass 100 kg has a weight of _____ at the surface of the Earth.
4. Passengers lean forward when sudden brake is applied in a moving vehicle.
This can be explained by _____ .
5. By convention, the clockwise moments are taken as negative and the anticlockwise moments are taken as _____ .
6. The weight of a body is more at the poles than at the _____ .
7. The value of acceleration due to gravity (g)for Earth (at sea level) is _____ m s^{-2} .
8. The value of universal gravitational constant (G) is -----
_____ $10^{-11} \text{N m}^2 \text{kg}^{-2}$.
9. When a person swims he pushes the water using the hands backwards (Action), and the water pushes the swimmer in the forward direction (Reaction) is the example for ----- .
10. Rotating effect of a couple is known as _____.