

The acceleration of the train is 1.94 m.s^{-2} .

8. An automobile vehicle has a mass of 1500 kg. What must be the force between the vehicle and road if the vehicle is to be stopped with a negative acceleration of 1.7 ms^{-2} ?

Solution

Given, mass of the vehicle (m) = 1500 kg

Acceleration (a) = -1.7 ms^{-2}

As per the second law of motion, $F = ma$

$$F = 1500\text{kg} \times (-1.7 \text{ ms}^{-2}) = -2550 \text{ N}$$

Therefore, a force of 2550 N must act on the vehicle in a direction opposite to that of its motion.

9. What is the momentum of an object of mass m , moving with a velocity v ?

(a) $(mv)^2$

(b) mv^2

(c) $\frac{1}{2} mv^2$

(d) mv

Solution

Since momentum is defined as the product of mass and velocity, the correct answer is (d), mv .

10. Using a horizontal force of 200 N, we intend to move a wooden cabinet across a floor at a constant velocity. What is the friction force that will be exerted on the cabinet?

Solution

Since the velocity of the cabinet is constant, its acceleration must be zero. Therefore, the effective force acting on it is also zero. This implies that the magnitude of opposing frictional force is equal to the force exerted on the cabinet, which is 200 N. Therefore, the total friction force is -200 N.

11. Two objects, each of mass 1.5 kg, are moving in the same straight line but in opposite directions. The velocity of each object is 2.5 ms^{-1} before the collision during which they stick together. What will be the velocity of the combined object after collision?

Solution

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C Cleary



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