

16. Two friends on roller-skates are standing 5 m apart facing each other. One of them throws a ball of 2 kg towards the other, who catches it. How will this activity affect the position of the two? Explain your answer.

**Soln:**

Distance between them will increase. Before throwing ball momentum of both of them will be zero. To conserve the momentum person who throws the ball moves backward. Person who catches the ball experiences a net force while catching the ball and he moves backwards.

17. Water sprinkler used for grass lawns begins to rotate as soon as the water is supplied. Explain the principle on which it works.

**Soln:**

Water sprinkler works on third law of motion. When water comes out of sprinkler an equal and opposite force is exerted. This will make the sprinkler rotate.

### Long Answer Questions

18. Using second law of motion, derive the relation between force and acceleration. A bullet of 10 g strikes a sand-bag at a speed of  $10^3 \text{ m s}^{-1}$  and gets embedded after travelling 5 cm. Calculate

(i) the resistive force exerted by the sand on the bullet

(ii) the time taken by the bullet to come to rest.

**Soln:**

$$\begin{aligned} \text{(i)} \quad m &= 10 \text{ g} \\ &= \frac{10}{1000} \text{ kg} \text{ or} \\ &= 10^{-3} \text{ kg} \\ v &= 0 \end{aligned}$$

$$s = \frac{5}{100} \text{ m}$$

$$v^2 - u^2 = 2as$$

$$0 - (10^3)^2 = 2a \frac{5}{100}$$

$$a = \frac{-1000 \times 1000}{2 \times 5} \times 10$$

$$= -10^7 \text{ ms}^{-2}$$

$$\begin{aligned} F &= ma \\ &= 10^5 \text{ N} \end{aligned}$$

$$\text{(ii)} \quad v = u + at$$

$$0 = 10^3 - 10^7 t$$

# Sciencechapter 9 Review And Assessment Answer

**Yi-Tong Ma**



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