

NCERT Exemplar Solutions by Dev Anoop (Bathinda)

Probability, Ex 13.3

$$\begin{aligned} \textcircled{36} \quad \text{no. of bulbs} &= 24 \\ \text{no. of defective bulbs} &= 6 \\ \text{no. of non defective bulbs} &= 24 - 6 \\ &= 18 \end{aligned}$$

$$(i) \quad P(\text{non defective bulb}) = \frac{18}{24} = \frac{3}{4}$$

$$\begin{aligned} (ii) \quad P(\text{defective bulb}) &= \frac{6}{24} \\ &= \frac{1}{4} \end{aligned}$$

$$\begin{aligned} \textcircled{37} \quad \text{no. of } \Delta s &= 8 \\ \text{no. of blue } \Delta s &= 3 \\ \text{no. of red } \Delta s &= 8 - 3 \\ &= 5 \end{aligned}$$

$$\begin{aligned} \text{no. of squares} &= 10 \\ \text{no. of blue squares} &= 6 \\ \text{no. of red squares} &= 10 - 6 \\ &= 4 \end{aligned}$$

$$\begin{aligned} \Delta s + \text{Squares} &= 8 + 10 \\ &= 18 \end{aligned}$$

$$P(\Delta) = \frac{8}{18} = \frac{4}{9}$$

$$P(\text{Square}) = \frac{10}{18} = \frac{5}{9}$$

$$P(\text{blue Square}) = \frac{6}{18} = \frac{1}{3}$$

$$P(\text{red } \Delta) = \frac{5}{18}$$