

NCERT Exemplar Solutions by Dev Anoop (Bathinda)
Probability, Ex 13.3

(26) outcomes $(1,3), (3,1), (2,4), (4,2), (4,6), (6,4),$
 $(5,3), (3,5)$

$$P(\text{difference } 2) = \frac{\cancel{8}^2}{\cancel{36}^9}$$

(27) total no. of balls = $10 + 5 + 7$
= 22

$$P(\text{red ball}) = \frac{\cancel{10}^5}{22 \cdot 11}$$

$$P(\text{green ball}) = \frac{7}{22}$$

$$P(\text{not blue ball}) = \frac{17}{22}$$

(28) (i) $P(\text{heart}) = \frac{13}{49}$

(ii) $P(\text{king}) = \frac{3}{49}$

(29) (i) $P(\text{club}) = \frac{10}{49}$

(ii) $P(\text{10 of hearts}) = \frac{1}{49}$