

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

- (40) no. of mobiles = 48
 no. of good mobiles = 42
 no. of mobiles with minor defects = 3
 no. of mobiles with major defects = 3

$$P(\text{acceptable to varneka}) = \frac{42}{48}^7$$

$$P(\text{acceptable to trader}) = \frac{45}{48}^{\cancel{15}}_{\cancel{16}}$$

- (41) no. of balls = 24 or $6x$
 no. of red balls = x
 no. of white balls = $2x$
 no. of blue balls = $3x$

$$P(\text{not red}) = \frac{2x+3x}{6x}$$

$$= \frac{5x}{6x}$$

$$= \frac{5}{6}$$

$$P(\text{white ball}) = \frac{2x}{6x}$$

$$= \frac{1}{3}$$

