

S W E

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Subject.....

Date.....

$$① (12 \times 4) \times (8 \times 4) \times (4 \times 4) = 34650$$

$$② 3P_2 = 6$$

$$③ ① P(A) = \frac{1}{5} \times \frac{3}{11} = \frac{1}{11}$$

$$② P(B) = \frac{2}{3} \times \frac{7}{11} = \frac{14}{33}$$

$$④ ① \frac{10(2)}{15(3)} = \frac{34}{91}$$

$$② \frac{15(1) \times 10(2)}{15(3)} = \frac{45}{91}$$

$$③ \frac{15(3) - 10(2)}{15(3)} = \frac{5}{91}$$

$$⑤ P(\text{boy}) = \frac{10}{30} = \frac{1}{3}$$

$$P(\text{F Mans}) = \frac{15}{30} = \frac{1}{2}$$

$$P(\text{boy and F Mans}) = \frac{5}{30} = \frac{1}{6}$$

$$\text{or } = \frac{1}{3} + \frac{1}{2} - \frac{1}{6} = \frac{5}{6}$$

$$⑥ i) P(\bar{A}) = 1 - \frac{2}{8} = \frac{5}{8}$$

$$ii) P(\bar{B}) = 1 - \frac{1}{2} = \frac{1}{2}$$

$$iii) P(\bar{A} \cap \bar{B}) = 1 - \left(\frac{2}{8} + \frac{1}{2} - \frac{1}{2} \right) = \frac{3}{8}$$

$$iv) P(\bar{A} \cup \bar{B}) = P(A \cap B) = 1 - \frac{1}{2} = \frac{1}{2}$$

$$v) P(\bar{A} \cap \bar{B}) = \frac{1}{2} - \frac{1}{2} = 0$$

$$vi) P(B \cap A) = \infty$$

$$⑦ \left(\frac{30}{36} \right)^3 = \frac{125}{216}$$

$$⑧ \{P(X) = K^2 \cdot 8 = 1$$

$$K = 3$$

المسألة

$$⑨ P(\bar{A} \cap \bar{B}) = P(\bar{A} \cup \bar{B}) = 1 - (.35 + .45) = 0.2$$