$$P(X_{1}X_{2}X_{3}) = \frac{3}{\binom{11}{6}} = \frac{3}{3} \frac{41 \cdot 10 \cdot 18 \cdot 18 \cdot 7}{8 \cdot 18 \cdot 12} = 962$$

$$RESTIP$$

$$P(X_{1} + X_{2} + X_{3}) = P(X_{1}) + P(X_{2}) + P(X_{3}) - P(X_{1}X_{2}) - P(X_{1}X_{2}) - P(X_{1}X_{2}) = P(X_{2}X_{3}) + P(X_{1}X_{2}X_{3}) = \frac{6}{962}$$

$$P(X_{1}) = \frac{96}{962} = P(X_{3}) \qquad P(X_{2}) = \frac{6}{962}$$

$$RST = EE \Rightarrow 1 \qquad 96$$

$$RST = EE \Rightarrow 15 \qquad 96$$

$$RST = EE \Rightarrow 30 \qquad (3) \cdot (5) \qquad P(X_{2}X_{3}) = \frac{3}{962}$$

$$P(X_{1}X_{3}) = \frac{15}{962} \qquad P(X_{1}X_{2}) = P(X_{2}X_{3}) = \frac{3}{962}$$

$$RSTPEE \Rightarrow 3$$

1/2/

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(17) MAST ERPIECE3

RSTPE发 -> 12

(14) BBB

BBG

BGB

GBB

(16) $P(A+B) = P(A) + P(B) - P(AB) = \frac{4}{36} + \frac{18}{36} - \frac{2}{36}$

X1={REST can be made} $X_2 = \{STRiP...\}$ $X_3 = \{PEST...\}$

GBG

GGB

BGG

GGGG

$$\begin{array}{l} (9)_{1}P(AB) > P(A) + P(B) - 1 \\ P(A+B) = P(A) + P(B) - P(AB) \\ P(AB) = P(A) + P(B) - P(A+B) > P(A) + P(B) - 1 \\ 9)_{2}P(A_{1}A_{2} - A_{n-1}) > P(A_{1}) + P(A_{2}) + P(A_{n-1}) - (h-2) \\ P(A_{1}A_{2} - A_{n-1}) + P(A_{n}) > P(A_{1}) + P(A_{2}) + P(A_{n}) - (h-1) \\ = P(A_{1}A_{2} - A_{n-1}) + P(A_{n}) - P(A_{1}A_{2} - A_{n-1} + A_{n}) = P(A_{1}A_{2} - A_{n-1} + A_{n}) =$$

(24) P(AB) = P(A). P(B)

independent

B and C are disjoint

AB and CD are disjoint for # A, D.

B

C