
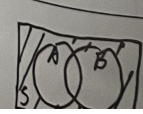
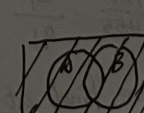
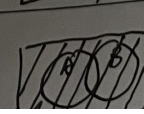


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<p>2.1.2</p> <p>a. $(CL, L, L), (CR, R, R), (CS, S, S)$</p> <p>b. $(CL, R, S), (CL, S, R), (CR, L, S), (CR, S, L), (CS, L, R), (CS, R, L)$</p> <p>c. $(CL, R, R), (S, R, R), (CR, L, R), (CR, S, R), (CR, R, L), (CR, R, S)$</p> <p>d. $(CL, R, R), (CL, S, S), (CR, L, L), (CR, S, S), (CS, L, L), (CS, R, R), (CR, L, R), (CS, L, S), (CL, R, L), (CS, R, S), (CL, S, L), (CR, S, R), (CR, R, L), (CS, S, L), (CL, L, R), (CS, S, R), (CL, L, S), (CR, R, S)$</p> <p>e. $D' = \{(CL, L, L), (CR, R, R), (CS, S, S), (CL, R, S), (CL, S, R), (CR, L, S), (CR, S, L), (CS, L, R), (CS, R, L)\}$</p> <p>$CUD = D = \{(CL, R, R), (CL, S, S), (CR, L, L), (CR, S, S), (CS, L, L), (CS, R, R), (CR, L, R), (CS, L, S), (CL, R, L), (CS, R, S), (CL, S, L), (CR, S, R), (CR, R, L), (CS, S, L), (CL, L, R), (CS, S, R), (CL, L, S), (CR, R, S)\}$</p> <p>$CND = C = \{(CL, R, R), (S, R, R), (CR, L, R), (CR, S, R), (CR, R, L), (CR, R, S)\}$</p>	<p>教师评语</p> <p>学生反思</p>
<p>4. a. $S = \{(V, V, Y, Y), (V, V, Y, F), (V, V, F, Y), (V, V, F, F), (V, F, Y, Y), (V, F, Y, F), (V, F, F, Y), (V, F, F, F), (F, V, Y, Y), (F, V, Y, F), (F, V, F, Y), (F, V, F, F), (F, F, Y, Y), (F, F, Y, F), (F, F, F, Y), (F, F, F, F)\}$</p> <p>b. $\{(V, F, F, F), (F, V, F, F), (F, F, V, F), (F, F, F, V)\}$</p> <p>c. $\{(V, V, Y, Y), (F, F, F, F)\}$</p> <p>d. $\{(F, F, F, F), (F, F, F, V), (F, F, V, F), (F, V, F, F), (V, F, F, F)\}$</p> <p>e. $CND = \{(F, F, F, F)\}$, $CUD = \{(V, V, Y, Y), (F, F, F, F), (F, F, F, V), (F, F, V, F), (F, V, F, F), (V, F, F, F)\}$</p> <p>f. $BVC = \{(V, V, Y, Y), (V, F, F, F), (F, V, F, F), (F, F, V, F), (F, F, F, V), (F, F, F, F)\}$</p> <p>$BNC = \{\emptyset\}$</p>	
<p>9. a.</p> <p>$(A \cup B)'$</p>  <p>therefor,</p> <p>$(A \cup B)' = A' \cap B'$</p> <p>$A' \cap B'$</p>  <p>b.</p> <p>$(A \cap B)'$</p>  <p>$(A \cap B)' = A' \cup B'$</p> <p>$A' \cup B'$</p> 	

12. a. $P(A \cup B) = P(A) + P(B) - P(A \cap B) = 0.5 + 0.4 - 0.25 = 0.65$

b. $P((A \cup B)') = 1 - P(A \cup B) = 0.35$

c. $P(A \cap B') = P(A) - P(A \cap B) = 0.25$

18. $P(A) = \frac{4}{15}$, $P(A') = 1 - P(A) = \frac{11}{15}$

27. a. There are 10 events of S: (And., Box), (And., Cox), (And., Cra.), (And., Fis.), (Box, Cox), (Box, Cra.), (Box, Fis.), (Cox, Cra.), (Cox, Fis.), (Cra., Fis.)
So $P = \frac{1}{10}$

b. There are 7 events. $P = \frac{7}{10}$

c. There are 6 events can do it: (And., Fis.), (Box, Cra.), (Box, Fis.), (Cox, Cra.), (Cox, Fis.), (Cra., Fis.). So $P = \frac{6}{10} = \frac{3}{5}$

2.3
30. a. $8 \times 7 \times 6 = 336$, There are 336 kinds of it.

b. $N_B = C_{30}^8 = \frac{30!}{24!6!} = 593775$

c. $N_C = C_8^2 \cdot C_{10}^2 \cdot C_{12}^2 = \frac{8!}{6!2!} \times \frac{10!}{8!2!} \times \frac{12!}{10!2!} = \frac{8 \times 7}{2} \times \frac{10 \times 9}{2} \times \frac{12 \times 11}{2} = 83160$

d. $p = \frac{C_8^2 \cdot C_{10}^2 \cdot C_{12}^2}{C_{30}^6} = \frac{83160}{\frac{30!}{24!6!}} = \frac{83160 \times 6! \times 24!}{30 \times 29 \times 28 \times 27 \times 26 \times 25} = 14\%$

e. $p = \frac{C_8^6 + C_{10}^6 + C_{12}^6}{C_{30}^6} = \frac{28 + 210 + 924}{593775} = 1.96\%$

38. a. $p = \frac{C_6^2 \cdot C_9^1}{C_{15}^3} = \frac{15 \times 9}{\frac{15 \times 14 \times 13}{3 \times 2}} = \frac{27}{91}$

b. $p = \frac{C_6^3 + C_6^2 \cdot C_4^1 + C_4^3}{C_{15}^3} = \frac{20 + 12 + 4}{455} = \frac{34}{455}$

c. $p = \frac{C_6^1 \cdot C_5^1 \cdot C_4^1}{C_{15}^3} = \frac{6 \times 5 \times 4}{455} = \frac{120}{455} = \frac{24}{91}$

d. Therefor. the bulbs must be find at 6th, 7th, 8th, 9th and 10th.

$$P_{c6th} = \frac{A_9^5 \cdot A_6^1}{A_{15}^6} = \frac{9 \times 8 \times 7 \times 6 \times 5 \times 6}{15 \times 14 \times 13 \times 12 \times 11 \times 10} = \frac{18}{715}$$

$$P_{c7th} = \frac{A_9^6 \cdot A_6^1}{A_{15}^7} = \frac{8}{715}$$

$$P_{c8th} = \frac{A_9^7 \cdot A_6^1}{A_{15}^8} = \frac{3}{715}$$

$$P_{c9th} = \frac{A_9^8 \cdot A_6^1}{A_{15}^9} = \frac{6}{5005}$$

$$P_{c10th} = \frac{A_9^9 \cdot A_6^1}{A_{15}^{10}} = \frac{1}{5005}$$

$$P = P_{c6th} + P_{c7th} + P_{c8th} + P_{c9th} + P_{c10th} = \frac{6}{143}$$

$$40. a. N = A_3^3 \cdot A_3^3 \cdot A_3^3 \cdot A_3^3 = 1296$$

$$b. P = \frac{A_3^3 \cdot A_3^3 \cdot A_3^3 \cdot A_3^3 \cdot A_4^4}{A_{12}^{12}} = \frac{1}{15400}$$