





10 a. There are
$$A_s^2 = 3.22.1 = 6$$
 ways to dothis

b. There are $C_s^3 = \frac{A_s^2}{0.1} = 391,775$ ways to dothis

c. There are $C_s^3 = \frac{A_s^2}{0.1} = 391,775$ ways to dothis

d. The probability is $\frac{C_s^3 + C_{10}^3 + C_{12}^3}{C_{13}^3} = \frac{1357}{13115}$

e. The probability is $\frac{C_s^3 + C_{10}^3 + C_{12}^3}{C_{13}^3} = \frac{137}{13115}$

38. a. Let the event be A

The P(A) = $\frac{C_s^3 + C_{11}^3}{C_{12}^3} = \frac{137}{11}$

c. Let the event be B

Then P(B) = $\frac{C_s^3 + C_{11}^3}{C_{12}^3} = \frac{137}{11}$

d. Let the event be C

Then P(C) = 1-P(C') = 1-C_{13}^3 = 1-C_{13}^3 = \frac{25872}{3125}

40.

a. Let the number be N

If the A,B,C,D can be distinguisable

Then the N = No | 12!

If not $\frac{C_{12}^3 + C_{13}^3}{C_{10}^3} = \frac{A_1^4}{C_{10}^3} = \frac{A_1^4}{C_{1$



