

5.  $P(7-7-7-7)$

$$\begin{aligned}
 & \begin{matrix} 1-6 \\ 6-1 \\ 2-5 \\ 5-2 \\ 3-4 \\ 4-3 \end{matrix} \\
 & = \left(\frac{6}{36}\right) \left(\frac{6}{36}\right) \left(\frac{6}{36}\right) \left(\frac{6}{36}\right) \\
 & = \left(\frac{1}{6}\right)^4 \\
 & = 7.716049383 \text{ E-4} \\
 & = .0007716049383 \\
 & = \underline{.0008}
 \end{aligned}$$

1-1 2-1  
 1-2 2-2  
 1-3 2-3  
 1-4 2-4  
 1-5 2-5  
 1-6 2-6

36 Poss.

ex:  $P(\text{AT LEAST ONE GIRL out of 5})$

$$\begin{aligned}
 & = 1 - P(\text{NO GIRLS}) \\
 & = 1 - P(\text{ALL BOYS}) \\
 & = 1 - \left(\frac{1}{2}\right)^5 \leftarrow \text{How many} \\
 & = \underline{.9688}
 \end{aligned}$$

6.  $P(\text{AT LEAST ONE RIGHT out of 25})$

$$\begin{aligned}
 & = 1 - P(\text{NONE RIGHT}) \\
 & = 1 - P(\text{ALL WRONG}) \\
 & = 1 - \left(\frac{3}{4}\right)^{25} \leftarrow \text{How many} \\
 & = \underline{.9992}
 \end{aligned}$$

25 MULTI-CHOICE  
 4 PARTS  
 1 OF WHICH IS RIGHT