$$\frac{15!}{7!} / \frac{158}{158} = 0.1012 = 10.12\%$$

2. random #5-(100000) 8
$$(5.4.7.6.5) - actual # = (5x5x4x6x7) 5x$$

$$(-5x5x4x6x7) 3 8
\hline
100000 = 6.4x 6 -6$$

3.
$$P(A) = \left(\frac{1}{2}\right)^{2} \left(\frac{1}{2}\right) \left(\frac{3}{2}\right) + \left(\frac{1}{2}\right)^{3} = \frac{1}{2}$$
 $P(B) = 1 \left(\frac{1}{6}\right)^{2} = \frac{1}{36}$
 $P(A) P(B) = \frac{1}{72}$
 $P(A) P(B) = \frac{3}{6} \times \left(\frac{1}{6}\right)^{2} = \frac{1}{72}$
 $P(A) P(B) = \frac{3}{6} \times \left(\frac{1}{6}\right)^{2} = \frac{1}{72}$

if is independent

4.
$$1 \times \frac{12}{51} \times \frac{11}{50} \times \frac{10}{48} \times \frac{9}{48} = \frac{11880}{30875200} = \frac{1}{0.00198} = 505.05$$

 $P(win 4/5) = 0.15625 \times 0.25 + 0.36015 \times 0.75 = 0.309175$

P(Superstar plays 1 win 4/5) = 0.36015 x 0-75/0-309/75 = 0.8737

$$P(F|E) = P(E|F) - P(E)$$