

75) $26 \cdot 26 \cdot 10 \cdot 26 \cdot 26 \cdot 26$
 $118,813,760$

76) $2 \cdot 2 \cdot 2 \cdot 8 = 10$
 $6 \cdot 2 = 10$

77) $P(x, x) = \frac{10}{10} \cdot \frac{1}{9} = \frac{1}{9}$

78) $P(\text{order}) = \frac{1}{5!} = \frac{1}{120}$

Greater!

79) $P(3) = \frac{1}{6} = \frac{6}{36}$
 $P(\text{sum of 6}) = \frac{5}{36}$

80) P(each die face)

$\frac{6}{6} \cdot \frac{5}{6} \cdot \frac{4}{6} \cdot \frac{3}{6} \cdot \frac{2}{6} \cdot \frac{1}{6} = \frac{720}{46,656} = \frac{5}{324}$

81) ^{At Least} $P(\text{One Tail}) = 1 - P(\text{No Tails})$
 $1 - \frac{1}{2^5} = \frac{31}{32}$

82) $P(3 \text{ at one}) = (.8)(.8)(.8)$
 $= .512$

83) $\frac{13^1 \cdot 4^1 \cdot 12^1 \cdot 4^1 \cdot 11^1 \cdot 4^1}{52^5}$

84) a) $\frac{208}{500} = 0.416$

b) $\frac{400}{500} = 0.8$

c) $\frac{32}{500} = 0.074$

$= 0.0475$

can be replaced with $44C_1$

OR $\frac{13C_2 \cdot 4C_2 \cdot 4C_2 \cdot 11C_1 \cdot 4C_1}{52^5} = 0.0475$

OR $\frac{52C_1 \cdot 3C_1 \cdot 48C_1 \cdot 3C_1 \cdot 44C_1}{52^5}$

Divide to eliminate Ambiguous Cases.

OR $\frac{52 \cdot 3 \cdot 48 \cdot 3 \cdot 44}{52^5}$