

## Simulation Practice



1) A cereal company marks  $\frac{1}{6}$  of its box lids with stars. If a customer gets a star, he or she wins a prize. Design a simulation for estimating the probability that a customer will need to buy at least 3 boxes to win a prize.

2) In an election, 52% of voters chose Mayor Garner. Use random digits as a simulation tool to estimate the probability that a reporter will ask more than 2 voters before finding one who voted for Garner.

3) In the U.S., 42% of blood donors have type A blood. Use the random numbers below as a tool to estimate the probability that it will take at least 4 donors to find one with type A blood.

MEDICINE			
91	04	81	49
72	45	45	96
54	93	14	81
70	28	66	00
67	37	29	45
33	77	57	22
58	84	14	80
49	45	20	59
78	05	88	88
21	83	16	98