

1. An experiment consists of picking one letter of the alphabet. List the favorable outcomes for each event below. (DON'T SKIP unless you've established a good pattern - something like a,...,p is NOT acceptable!)
 - (a) The letter is at least at the seventh position in the alphabet.
 - (b) The letter is at most at the seventh position in the alphabet.
 - (c) The letter's position does not exceed fifteenth in the alphabet.
 - (d) The letter is at most at the tenth position and is a consonant.
 - (e) The letter is at most at the tenth position or is a consonant.
 - (f) The letter is at least eighteenth in the alphabet and occurs in the word SLIPPERY.
 - (g) The letter is at least 25th in the alphabet or occurs in the word SLIPPERY.

2. An experiment consists of picking one card from a deck containing 8 red cards (numbered 1 through 8), 8 green cards (also numbered 1-8), 4 blue cards (number 3,4,5,6), and 4 black cards (numbered 2,4,6,8). List the favorable outcomes for each event below. (DON'T SKIP unless you've established a good pattern!)
 - (a) Getting a card that is blue or has the number 8 on it
 - (b) Getting a card that is blue and has a prime number on it
 - (c) Getting a card that is a color on the US flag or has an even number on it
 - (d) Getting a card whose color starts with B and whose number is more than 5
 - (e) Getting a red card or a card with a perfect square number on it
 - (f) Getting a card that is green and has a number smaller than 4 on it
 - (g) Getting a card that is green or has a number smaller than 4 on it

1.
 - (a) g,h,i,j,...,y,z (20 letters)
 - (b) a,b,c,d,e,f,g (7 letters)
 - (c) a,b,c,d,e,f,g,h,i,j,k,l,m,n,o (15 letters)
 - (d) b,c,d,f,g,h,j (7 letters)
 - (e) a,b,c,d,e,f,g,i,j,k,l,m,n,p,q,r,s,t,v,w,x,y,z (in other words, everything but o, u, so 24 letters)
 - (f) y
 - (g) s,l,i,p,e,r,y,z (8 letters)
2.
 - (a) Blue 3, Blue 4, Blue 5, Blue 6, Red 8, Green 8, Black 8 (7 cards)
 - (b) Blue 3, Blue 5
 - (c) Red 1, Red 2, through Red 8, Blue 3, Blue 4, Blue 5, Blue 6, Green 2, Green 4, Green 6, Green 8, Black 2, Black 4, Black 6, Black 8 (20 cards)
 - (d) Blue 6, Black 6, Black 8
 - (e) Red 1, Red 2, Red 3, Red 4, Red 5, Red 6, Red 7, Red 8, Green 1, Green 4, Blue 4, Black 4 (12 cards)
 - (f) Green 1, Green 2, Green 3
 - (g) Green 1, Green 2, Green 3, Green 4, Green 5, Green 6, Green 7, Green 8, Red 1, Red 2, Red 3, Blue 3, Black 2 (13 cards)