A1-2:

1. A deck is the group of cards, while cards are the individual items within a deck.
2. 6
3. String[] suits = {“Hearts”, “Spades”, “Clubs”, “Diamonds”};

int[] values = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13};

String[] ranks = {"Ace","2","3","4","5","6","7","8","9","10","Jack","Queen","King"};

1. No

A3-4:

1. public static String flip()  
    {  
    Random rnd = new Random();  
    String side;  
    int n = rnd.nextInt(3);  
    if(n==0 | n==1)  
    {  
    side = "heads";  
    }  
    else  
    {  
    side = "tails";  
    }  
    return side;  
   }
2. public static void arePermutations(int[]a, int[] b)  
    {  
    boolean[] perm = new boolean[a.length];  
    if(a.length == b.length)  
    {  
    for(int i = 0; i < a.length; i++)  
    {  
    perm[i] = false;  
    for(int j = 0; j < b.length; j++)  
    {  
    if(a[i] == b[j])  
    {  
    perm[i] = true;  
    }  
    }  
    }  
    boolean isPerm = true;  
    for(int i=0; i < perm.length;i++)  
    {  
    if(perm[i] != true)  
    {  
    isPerm = false;  
    break;  
    }  
    }  
    if(isPerm == true)  
    {  
    System.*out*.println("They are permutations.");  
    }  
    else  
    {  
    System.*out*.println("There are not permutations.");  
    }  
    }  
    }
3. The Shuffle method is completely random, so you cannot tell when an array of {1,2,3,4} will reverse into {4,3,2,1}.