1. Evaluate the following problems:

- A. Math.pow(3,2)
- B. Math.floor(12.89)
- C. Math.sqrt(25)
- D. Math.abs(-99)
- E. Math.min(-22, -33)
- F. Math.ceil(2.3)
- G. Math.round(7.7)
- H. Math.random() * 10
- I. Math.round(Math.PI*2+1.4)
- J. Math.abs(Math.pow(5,2)-40)
- K. Math.pow(17%10, Math.sqrt(4))
- L. Math.sqrt((int)(10.0/4*3) 3)
- M. Math.floor(Math.min(3.87, Math.abs(-3.79)))
- N. Math.min(Math.sqrt(1.21), 21%2)
- O. (int)(Math.random() * 20)+1

	In int	In dec	O	O dec
Math.abs(x)	X	х	х	X
Math.pow(x,y)	X	X		X
Math.sqrt(x)	X	X		X
Math.floor(x)	X	X		X
Math.ceil(x)	X	X		X
Math.min(x,y)	X	X	X	X
Math.max(x,y)	X	X	X	X
Math.random()				X
Math.round(x)	X	X	X	

2. Create a new JAVA class called **diceRoller**. This diceRoller class will simulate a video game in which a 6-sided die is rolled and an 8-sided die is rolled. The two dice are added together to determine how many spaces you move in the game. Use the following code to create the main program and then complete the program by writing the missing code for each part of the program. Be sure to test your class multiple times to make sure it is working.

3. Create a new JAVA class called **drawCard**. The drawCard class is intended to simulate drawing a random card from a standard 52-card deck of cards. A random number between 1 and 52 will be selected by the computer and will determine the card drawn. Use the following chart to determine which card your program selects:

```
public class drawCard {
    public static void main(String[] args) {
        int randomCardNumber;

        randomCardNumber = //add code to make 1-52

        System.out.print("Your card was #"+randomCardNumber);

    }
}

Once your program is finished, run it four times:

Trial #1: Card #____ The card is the _____

Trial #2: Card #____ The card is the _____

Trial #3: Card #___ The card is the _____

Trial #4: Card # The card is the _____
```

1 – Ace of Hearts				
2 – 2 of Hearts				
3 – 3 of Hearts				
4 – 4 of Hearts				
5 – 5 of Hearts				
6 – 6 of Hearts				
7 – 7 of Hearts				
8 – 8 of Hearts				
9 – 9 of Hearts				
10 – 10 of Hearts				
11 – Jack of Hearts				
12 – Queen of Hearts				
13 – King of Hearts				
Cards 14-26 = same but Spades				
Cards 26-42 = same but Diamonds				
Cards 43-56 = same but Clubs				