Unit 2 Review #1 worksheet Name: _____

1. Store the absolute value of integer n in double variable x:

```
int n = scan.nextInt();

double x =
```

2. Write code to store the square root of integer n in the double variable x:

```
int n = scan.nextInt();

double x =
```

3. Write code to raise integer n to the 5th power in double variable x:

```
int n = scan.nextInt();

double x =
```

4. Write code to store a random integer between -10 and 10 inclusive in x:

```
int x =
```

5. Write code to store a random integer between 12 and 15 inclusive in x:

```
int x =
```

6. Write code to store a random even integer between 4 and 10 inclusive in x.

```
int x =
```

7. Given a properly initialized String variable **str** containing at least 2 characters, write code to store a copy of str in a new String str2 that is missing the last character. For example the String "dog" would be saved as "do" in str2, and "Friday" would be saved as "Frida".

8. Complete the following method which is meant to return a String created using Strings a and b where String b is inserted exactly in the middle of String a. Assume String a has an even number of characters and is at least 2 characters long. Example: sending over "spooky" and "cat" returns "spocatoky".

```
public String mashup(String a, String b)
{




}
```

(continued on back)

Questions 9 through 17 use this class:

```
public class Frog
{
   private int location;

   public Frog()
   {
      location=0;
   }

   public void hop()
   {
      location++;
   }

   public int getLocation()
   {
      return location;
   }
}
```

9. Write a line of code that creates a new Frog object named "frankie":

10. Write a line of code that makes frankie hop forward one space.

11. Write a line of code the prints frankie's location.

12. Fill in the blanks to create an accurate statement:

The object frankie is an _____ of Frog

13. Fill in the blanks to create an accurate statement:

The _____ Frog has an attribute _____

14. True/False:

frankie is an instance of object Frog

15. True/False:

Frog is an instance of class frankie

16. True/False:

Object frankie has an attribute location

17. What is printed by the following code?

```
Frog hubba = new Frog();
hubba.hop();
hubba.hop();
hubba.hop();
System.out.println(hubba.getLocation());
```

18. Complete the following method which is meant to return a String made up of the first and last characters of String a. For example, sending over "hello" returns "ho". Assume String a is 2 or more characters long.

```
public String startAndEnd(String a)
{




}
```

19. Complete the following method which is meant to return a random integer between integers a and b inclusive.

```
public int randomizer(int a, int b)
{



}
```