

Name _____ Period _____

Skill 20.2: Exercise 1

Refer to the code below to answer the following.

```
public class TvShow
{
    public String actor1 = "Don Knots";
    public static String actor2 = "Homer Simpson";
    public static int numShows = 0;
    public static int x = 59;
    public int y = 1059;
    public String showName;

    public TvShow(String nm)
    {
        numShows++;
        showName = nm
    }

    public static int numberOfShows()
    {
        return numShows;
    }

    public static void setActor1(String act1)
    {
        actor1 = act1
    }
}
```

(a) Write code that will print the data member actor1. Do this without instantiating any objects.

- (b)
- (i) Create an instance of TvShow called walkingDead (pass in the String "Walking Dead")
 - (ii) Create an instance of TvShow called gameOfThrones (pass in the String "Game of Thrones")

(c) Write code that will print the class variable numShows. How many shows will be printed?

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Skill 20.2: Exercise 2

Refer to the code below to answer the following,

```
public class Dweeb{  
    public Dweeb(){  
        //Constructor  
    }  
    public static int x;  
}
```

For each of the following indicate what is printed:

- (a) `Dweeb.x = 55;`
`System.out.println(Dweeb.x);`
- (b) `Dweeb twerp1 = new Dweeb();`
`System.out.println(Dweeb.x);`
- (c) `twerp1.x = 99;`
`System.out.println(Dweeb.x);`
- (d) `Dweeb twerp2 = new Dweeb();`
`System.out.println(twerp2.x);`

Skill 20.3: Exercise 1

```
public class Main  
{  
    public static void main(String[]  
args)  
    {  
        double yz = methodF();  
    }  
    public static double methodF()  
    {  
        double d = 3.14;  
        return d;  
    }  
    public static double sv = 99;
```

Consider the following calls in the main method. For each of the following indicate whether the statement is legal or illegal

- (a) `double yz = sv;`
- (b) `int xyz = i`
- (c) `System.out.println(method()/sv);`
- (d) `System.out.println(yz/i);`

AP Computer Science A
Ticket Out the Door
Set 20: Static Methods

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| | |
|------------------------------------|--|
| <pre>public int i = 7; }</pre> | |
|------------------------------------|--|