

CST8132 Quiz #1

Name: _____

6 Questions with point value next to each question. 12 points total.

1. Which command prompt command represents the Java Compiler? [1 point]

- A. java
- B. dir
- C. javac

2. Which command prompt command represents the Java Virtual Machine? [1 point]

- A. java
- B. dir
- C. javac

3. Which item(s) in the code sample below will be allocated onto the **call stack**? [2 point]

```
public static void main(String[] args){  
    Person p = new Person();  
}
```

- A. args
- B. new Person
- C. both args and p

4. Which item(s) in the code sample below will be allocated onto **the heap**? [2 point]

```
public static void main(String[] args){  
    Person p = new Person();  
}
```

- A. args
- B. new Person
- C. both args and p

5. What prints from the following code sample? [2 point]

```
public class Thingy{  
    public static void main(String[] args){  
        int numbers = {1, 2, 3, 4, 5};  
        for(int index = numbers.length; index >= 0; index--){  
            System.out.print(numbers[index] + ", ");  
        }  
    }  
}
```

- A. 5, 4, 3, 2, 1, then the program exits normally
- B. 4, 3, 2, 1, 0, then the program exits normally
- C. **ArrayIndexOutOfBoundsException (program crashes)**

Questions continue on the back of this page

```

public class TunaFish{
    private String name;
    private double weight;

    public TunaFish(){
        this("fishy", 100.00);
    }

    public TunaFish(String n, double w){
        this.name = n;
        this.weight = w;
    }
    /* gets and sets omitted */
}

```

```

public class TunaFishTester{
    public static void main(String[] args){
        TunaFish fishyFish = new TunaFish();
        TunaFish ohSoStinky =
            new TunaFish("Stinky Fish", 3000.0);
    }
}

```

Question 6: Draw a memory map that represents stack and heap just before method main ends. Tip: variables fishyFish and ohSoStinky above. [4 point]

