

Java 111 Final Exam Review (from version 1)

Total Questions: 25

Most Correct Answers: #17

Least Correct Answers: #24

- 1. Instance variables are variables declared inside a method or method parameter.
- **0/8** (A) True
- 0/8 (B) True only in an interface
- 0/8 (C) True only in an abstract class
- 7/8 D False
 - 2. In the code example below, which is the object reference variable?
- 0/8 (A) Duck()
- 0/8 (B) 24
- 7/8
- 0/8 (D) new Duck()
- **0/8** (E) Duck
- 3. In the code example below, where will the Duck object live?
- **7/8** A Heap
- 0/8 (B) Stack
- **0/8** (c) Frame

```
public class StackRef {
   public void run() {
      build();
   }
   public void build() {
      Duck d = new Duck(24)
   }
```

public class StackRef {

public void run() {
 build();

public void build() {
 Duck d = new Duck(24);

- 4. The currently executing method is the one on the bottom of the stack.
- **1/8** (A) True
- 6/8 B False
- 5. In the code example below, how long will "d" live on the stack?
- 3/8 A Until run() pops off the stack
- 3/8 (B) Until build() is added to the top of the stack
- 0/8 (c) Until build() pops off the stack
- 1/8 D Until d is garbage collected

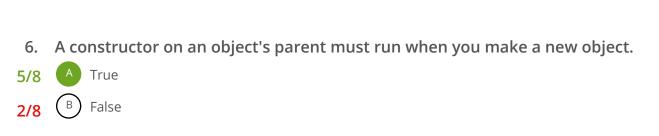
```
public class StackRef {

public void run() {
    Duck d = new Duck();
    build();

}

public void build() {

public void build() {
}
```



7. Type the code that should appear on line 7 to call the Duck's single arg constructor with a parameter of 14. Anon anon0780d85e98e34870 public class Duck extends Animal { this(14); public Duck() { Anon anon0c1db66075c9447f public Duck(int newSize) {
 size = newSize; \times Duck d = new Duck(12); Anon anon34f2ed21335e4ace X size size Anon anon632270ffb36e4eb1 X Duck(int 0); Anon anon689ea2fa741a46a9 X this.size(14) Anon anona3f3d2a2e9fc4e4a this(14); Anon anonbad1f43d4fee458d X this(int newSize); A constructor can have a call to super() OR this(), but NEVER both. True 7/8 В False 1/8

- 9. A class must be put into a directory structure that matches the package hierarchy.
- True 7/8 False 0/8
 - The keyword "static" lets a method run without any instance of the class.
- True 7/8 False 1/8

The following code will compile:

```
public class Cat {
int morningMeowVolume = 5;
int kittyCount;
public static int retrieveKittyCount() {
return kittyCount;
        True
```

- 3/8
- False 4/8
 - An abstract class can only have abstract methods.
- True 3/8
- False 5/8
- Marking a class with the "abstract" keyword prevents a developer from instantiating that class.
- True 7/8
- 1/8 False
 - Which of the following are true?
- A) An interface must be created using the keyword "abstract". 1/8
- An interface defines only abstract methods (prior to Java 8). 7/8
- A class can implement multiple interfaces. 8/8
- All interface methods are implicitly public. 7/8
- None of the above. 0/8

15. Write an abstract method called calculatePremium that accepts two parameters: a double for rate and an int for term. The method has returns a double.

```
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```

```
public abstract double calculatePremium(double rate, int term)
{
  //double answer = do fancy magic maths
  return answer;
}
```

Anon anon0c1db66075c9447f

public abstract double calculatePremium(double rate, int term);

Anon anon34f2ed21335e4ace

```
public double calculatePremium(){
   System.out.println(122);
   returns calcultePremium;
}
```

Anon anon5713f8dc71814b33

public abstract double calculatePremium(double rate, int term);

Anon anon632270ffb36e4eb1

abstract double calculatePremium(double rate, int term) {}

Anon anon689ea2fa741a46a9

public abstract double calculatePremium(double rate, int term);

Anon anona3f3d2a2e9fc4e4a

public abstract double calculatePremuim(double rate, int term);

Anon anonbad1f43d4fee458d

abstract double calculatePremium (double rate, int term) {}

16. The following will compile:

```
public class Puppy extends Dog {
public Puppy() {
setSize(.5);
super();
}
}
True
```

7/8 B False

17. obj	Given the following: SuperStarCoder rockstar = new JavaRockStar(); what is the ect reference type?		
0/8	(A) JavaRockStar		
0/8	B rockstar		
8/8	C SuperStarCoder		
0/8	D new		
0/8	None of the above		
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18.			
1/8	public abstract interface class Payable {}		
0/8	B public abstract Payable {}		
0/8	public abstract interface class Payable extends Payable {}		
7/8	public interface Payable {}		
0/8	None of the above		
19.	Which of the following are true?		
8/8	You can write a new instance method in the subclass that has the same signature as the one in the superclass, thus overriding it.		
7/8	B You can declare new methods in the subclass that are not in the superclass.		
7/8	You can declare new fields in the subclass that are not in the superclass.		
4/8	A subclass cannot extend multiple superclasses.		
2/8	(E) A subclass inherits the private instance variables and private methods of its superclass.		
20. A superclass called Fruit contains a method called display() that outputs a message to the terminal. Which code segment IN THE SUBCLASS Apple will successfully call that method?			
7/8	A super.display();		
0/8	B Fruit.display();		
0/8	C display(Fruit);		
1/8	D Apple.display;		
0/8	E this.display();		

21.	Wh	nich of the following are true:	
6/8	A	The arguments and return types of an overriding method must look to the outside world exactly like the overridden method in the superclass.	
7/8	В	Overloaded methods have the same name, but different argument lists.	
6/8	C	Overloaded methods can have different return types as long as the arguments lists are different.	
3/8		When overriding a public method, you can declare the method as private.	
0/8	$\bigcirc \!$	All of the above are true.	
	An sses.	import statement saves you from having to type out the full name of	
5/8	A	True	
3/8	\bigcirc B	False	
23. What is the proper way to add a Kumquat object to an ArrayList of Kumquats called myKumquatList? Assume I have created a Kumquat object like this: Kumquat myKumquat = new Kumquat();			
0/8	A	myKumquatList.kumquat = myKumquat;	
1/8	\bigcirc B	myKumquatList[0] = myKumquat;	
5/8	C	myKumquatList.add(myKumquat);	
1/8	D	myKumquatList[1].add(myKumquat)	

24. Event[] events = new Event[2]; events[0] = new Marathon(); events[1] = new Meeting();

If Marathon, Meeting and Event do not have a superclass/subclass relationship, explain how this code will compile and run.

Anon anon0780d85e98e34870

X They are of different types and won't compile?

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it won't compile because there is no object reference variable on the 2 objects

Anon anon34f2ed21335e4ace

X have the main method

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X IDK:(

Anon anon632270ffb36e4eb1

X huh

Anon anon689ea2fa741a46a9

X idk

Anon anona3f3d2a2e9fc4e4a

X each of the classes must implement the same interface

25. Why is importing other packages or classes into your class necessary?

5/8 A so that the compiler can find the .class files of all classes referenced by your class.

2/8 B so that the compiler can find the source files of all classes reference by your class.

0/8 (c) so that the compiler can put your classes in the proper directory.

1/8 D so that the compiler knows where to find your source code.