## Review Questions

1. Which of the following are valid Java identifiers? (Choose all that apply)

```
ASB
hel
            helloworld
            true
       D. java, lang
       ■ Public
       F. 1985 s
   2. What is the output of the following program?
        1: public class WaterBottle {
       2: private String brand;
        3: private boolean empty;
        4: public static void main(String[] args) {
             WaterBottle wb = new WaterBottle():
            System.out.print("Empty = " + wb.empty);
System.out.print(", Brand = " + wb.brand);
        A. Line 6 generates a compiler error.
        B. Line 7 gmerates a compiler error.
       C. There is no output.
       a Empty - false, Brand - null
       E. Empty = false, Brand =
       F. Empty - null, Brand - null
   3. Which of the following are true? (Choose all that apply)
        4: short numPets = 5;
       5: int numbrains = 5.8;
6: String name = "Scruffy";
        7: mumPets.length();
        8: nueGrains.length();
           name.length();
        A. Line 4 generates a compiler error.
       Line 5 generates a compiler error.
        C. Line 6 generates a compiler error.
       Line 7 generates a compiler ceror.

    Line 8 generates a compiler error.

6. Given the following classes, what is the maximum number of imports that can be removed
    package aquartum; public class Nater ( )
    package aquartum;
     import java.lang.";
     import jaxa.lang.System;
      import aquarium.Water;
    import aquarium.*;
public class Tank (
      public void print(Water water) {
        System.out.println(water); ) }
    B. 1
    C. 2
    D. 1
    F. Does not compile.

    Given the following classes, which of the following stippets can be inserted in place of
INSERT IMPORTS MERE and have the code compile? (Chouse all that apply)

    package aquartum;
    public class Water [
      boolean salty - false;
    package aquarium.jellies;
    public class Water [
       boolean salty - true;
     INSERT IMPORTS HERE
    public class WaterFiller {
      Water water;
    import aquarium.*;
   import aquarium.Water;
import aquarium.jellies.*;
```

import aquarium.\*;
 import aquarium.jellies.Water;

```
F. Line 9 generates a compiler error.
           G. The code compiles as is,
      4. Given the following class, which of the following is true? (Choose all that apply)
            1: public class Snake (
            3: public void shed(boolean time) {
                  if (time) (
                   System.out.println(result);
           16: 1
           11: )
           ■ If String result = "done"; is inserted on line 1, the code will compile.

    If String result = "done"; is inserted on line 4, the code will compile.

           C. If String result = "done"; is inserted on line 6, the code will compile.
           D. If String result = "done"; is inserted on line 9, the code will compile.
           E. None of the above changes will make the code compile.

    Given the following classes, which of the following can independently replace INSERT
IMPORTS HERE to make the code compile? (Choose all that apply)

           package aquarfum;
           public class Tank ( )
           package aquarium.jelliea;
           public class Jelly ( )
           package visitors
           INSERT IMPORTS HERE
           public class AquartumVisitor
             public void admire(Jelly (elly) ( ) )
           A. import aquarium.";
           B. import aquartum.*.Jelly;

    import aquarium.jellies.Jelly;

           finport aquarium.jellies.";
           E. import aquarium.jellies.Jelly.*;
           F. None of these can make the code compile.
    D. import aquarium.";
import aquarium.jellies.";
    E. import aquarium.Water;
import aquarium.jellies.Water;
     F. None of these imports can make the code compile.
8. Given the following class, which of the following calls print out Blue. Jay? (Choose all that
     applyi
     public class BirdDisplay (
      public static void main(String[] name) {
   System.out.println(name[1]);
     A. java SirdDisplay Sparrow Blue Jay
    🌲 java BirdDisplay Sparrow "Blue Jay"
    C. java BirdDisplay Blue Jay Sparrow
D. java BirdDisplay "Blue Jay" Sparrow
     E. jave BirdDisplay.class Sparrow "Blue Jay"
     F. java BirdDisplay.class "Blue Day" Sparrow
     G. Does not compile.

    Which of the following legally fill in the blank so you can run the main() method from the
command line! (Choose all that apply)
public static wold main(______)

     ■ String[] _names
     B. String[] 123
    String abc[]
    String _Names[]
String... $n
     F. String names
     G. None of the above.
10. Which of the fullowing are legal entry point methods that can be run from the command
line? (Choose all that apply)
```

A. private static void main(String[] args) B. public static final main(String[] args)

D. public static void test(String[] ares)

public static wold main(String[] args)
 public static main(String[] args)

C. public void main(String[] ares)

G. None of the above.

- 11. Which of the following are true? (Choose all that apply)
  - A. An instance variable of type double defaults to null.
  - B. An instance variable of type int defaults to null.
- As instance variable of type String defaults to null.
- An instance variable of type double defaults to 0.0.
- An instance variable of type int defaults to 0.0.
   An instance variable of type String defaults to 0.0.
- G. None of the above.
- 12. Which of the following are true? (Choose all that apply)
  - A. A local variable of type boolean defaults to null.
  - A local variable of type float defaults to 0.
     A local variable of type Object defaults to null.

  - A local variable of type boolean defaults to false.
     A local variable of type boolean defaults to true.
  - F. A local variable of type float defaults to 0.0.
- . None of the above.
- 13. Which of the following are true? (Choose all that apply)
- An instance variable of type boolean defaults to false.
   An instance variable of type boolean defaults to true.
- An instance variable of type boolean defaults to null.
- An instance variable of type Int defaults to 0.
- E. An instance variable of type int defaults to 0.0.
- $\textbf{F.} \quad \text{An instance variable of type int defaults to null},$ G. None of the above.
- 14. Given the following class in the file /wy/directory/named/A/Bird.java: INSERT CODE HERE

malic class Bird ( )

Which of the following replaces IMSERT CODE HERE if we compile from /my/directory? (Choose all that apply)

- A. package my.directory.named.a;
- B. package my.directory.named.A;
- C. package named.a;
- package named.A;
   package a;
- F. package A;
- G. Does not compile.

- 16. Which of the following lines of code compile? (Choose all that apply)

  - ■. int i1 = 1\_234; B. double d1 = 1\_234\_.0;
  - C. double d2 = 1 234. 0:
  - D. double d3 = 1\_234.8\_;
  - double d4 = 1\_234.8; F. None of the above.
- 16. Given the following class, which of the following lines of code can replace INSERT CODE MSER to make the code compile? [Choose all that apply] public class Price [ public class Price ].

INSERT CODE MERE System.out.println(amount);

5.5

- int amount = 86181;
  int amount = 0x8;
- double amount = BxE; E. double amount = 1 2 .8 6:
- int amount + 1\_1\_;
- G. Note of the above.
- 17. Which of the following are true? (Choose all that apply)

public class Burny (
 public static void main(String□ args) {
 Burny bun = new Burny();
}

- Bunny is a class.
- B. bun is a class. C. marin is a class.
- but is a reference to an object.
- F. marin is a reference to an object.
- G. None of the above.
- Which represent the order in which the following statements can be assembled into a program that will compile successfully? (Choose all that apply)

  - A: class Rabbit () 8: import java.util.\*; C: package animals;