1.Which of the following declarations does not compile?

   A. double num1, int num2 = 0;

   B. int num1, num2;

   C. int num1, num2 = 0;

   D. int num1 = 0, num2 = 0;

2.What is the output of the following?
```
public static void main(String... args)
{
String chair, table = "metal";
chair = chair + table;
System.out.println(chair);
}
```
A.   metal
B.   metalmetal
C.   nullmetal
D.   The code does not compile.

3.Which is correct about an instance variable of type String?

   A. It defaults to an empty string.

   B. It defaults to null.

   C. It does not have a default value.

   D. It will not compile without initializing on the declaration line.

4.Which of the following is not a valid variable name?

   A. _blue

   B. 2blue

   C. blue$

   D. Blue

5.Which best describes what the new keyword does?

   A. Creates a copy of an existing object and treats it as a new one

   B. Creates a new primitive

   C. Instantiates a new object

   D. Switches an object reference to a new one

6. Which is the first line to trigger a compiler error?

```
double d1 = 5f; // p1
double d2 = 5.0; // p2
float f1 = 5f; // p3
float f2 = 5.0; // p4
```

- A. p1
- B. p2
- C. p3
- D. p4

7. Which of the following lists of primitive types are presented in order from smallest to largest data type?

- A. byte, char, float, double
- B. byte, char, double, float
- C. char, byte, float, double
- D. char, double, float, bigint

8. Which of the following is not a valid order for elements in a class?

- A. Constructor, instance variables, method names
- B. Instance variables, constructor, method names
- C. Method names, instance variables, constructor
- D. None of the above: all orders are valid.

9. Which of the following lines contains a compiler error?

```
String title = "Weather";   // line x1
int hot, double cold; // line x2
System.out.println(hot + " " +title); // line x3
```

- A. x1
- B. x2
- C. x3
- D. None of the above

10. Of the types double, int, and short, how many could fill in the blank to have this code output 0?

```
public static void main(String[] args)
{
defaultValue;
System.out.println(defaultValue);
}
```

A. None

B. One

C. Two

D. Three

11.Which type can fill in the blank?

pi = 3.14;

A. byte

B. float

C. double

D. short

12.Which of the following is not a valid class declaration?

A. class building {}

B. class Cost$ {}

C. class 5MainSt {}

D. class _Outside {}

13.Which is correct about a local variable of type String?

A. It defaults to an empty string.

B. It defaults to null.

C. It does not have a default value.

D. It will not compile without initializing on the declaration line.

14.Given the following code, fill in the blank to have the code print bounce.

```
public class TennisBall
{
  public TennisBall()
  {
   System.out.println("bounce");
  }
  public static void main(String[] slam)
  {

  }
}
```

A. TennisBall;

B. TennisBall();

C. new TennisBall;

D. new TennisBall();

Which of the following correctly assigns animal to both variables?

```
  I.    String cat = "animal", dog = "animal";
 II.    String cat = "animal"; dog = "animal";
III.    String cat, dog = "animal";
 IV.    String cat, String dog = "animal";
```

    A.   I
    B.   I, II
    C.   I, III
    D.   I, II, III, IV

16.Which of the following does not compile?

    A. double num = 2.718;

    B. double num = 2._718;

    C. double num = 2.7_1_8;

    D. None of the above; they all compile.

17.Fill in the blank to make the code compile:

```
package animal;
public class Cat
{
public String name;
 public static void main(String[] meow)
 {
  Cat cat = new Cat();
      = "Sadie";
}
}
```

    A. cat.name

    B. cat-name

    C. cat.setName

    D. cat[name]

```
public class TennisBall
{
}
```
   A. public TennisBall static create() { return new TennisBall(); }

   B. public TennisBall static newInstance() { return new TennisBall():}

   C. public TennisBall() {}

   D. public void TennisBall() {}

```
package beach;
public class Sand
{
public Sand()
  {
   System.out.print("a");
  }
  public void Sand()
  {
   System.out.print("b");
  }
  public void run()
  {
  new Sand();
  Sand();
  }
  public static void main(String... args)
  {
    new Sand().run();
  }
  }
```
   A. a

   B. ab

   C. aab

   D. None of the above