TRUE/FALSE

1. Programming style includes techniques for consistently putting spaces and indentation in a program to help create visual cues.

ANS: T

2. Both character and string literals can be assigned to a **char** variable.

ANS: F

3. A variable's scope is the part of the program that has access to that variable.

ANS: T

4. Named constants are initialized with a value and that value cannot change during the execution of the program.

ANS: T

 When you call one of the Scanner class's methods to read a primitive value, such as nextInt or nextDouble, and then call the nextLine method to read a string, an annoying and hard-to-find problem can occur.

ANS: T

6. A message dialog is a quick and simple way to ask the user to enter data.

ANS: F

7. The Java API provides a class named **Math** that contains numerous methods which are useful for performing complex mathematical operations.

ANS: T

8. Unlike a console program, a program that uses the **JOptionPane** does not automatically stop executing when the end of the **main** method is reached.

ANS: T

9. The **System.out.printf** method allows you to format output in a variety of ways.

ANS: T

10.	If you use a flag in a format specifier, you must write the flag before the field width and the precision.
	ANS: T
MUL	TIPLE CHOICE
1.	Which of the following is a value that is written into the code of a program? a. a literal b. an assignment statement c. an operator d. a variable ANS: A
2.	Which of the following is a named storage location in the computer's memory? a. a literal b. an operator c. a constant d. a variable ANS: D
3.	Which of the following is not a valid Java comment? a. /** Comment one */ b. */ Comment two /* c. // Comment three d. /* Comment four */ ANS: B
4.	
5.	 Which of the following is not a rule that must be followed when naming identifiers? a. After the first character, you may use the letters a-z, A-Z, an underscore, a dollar sign, or the digits 0-9. b. Identifiers can contain spaces. c. Uppercase and lowercase characters are distinct. d. The first character must be one of the letters a-z, A-Z, an underscore, or a dollar sign. ANS: B
6.	Character literals are enclosed in and string literals are enclosed in a. single quotes, double quotes b. double quotes, single quotes

- c. single quotes, single quotes
- d. double quotes, double quotes

ANS: A

- 7. Variables are classified according to their
 - a. names
 - b. values
 - c. locations
 - d. data types

ANS: D

8. What is the result of the following expression?

- a. 105
- b. 12
- c. 7
- d. 8

ANS: C

9. What is the result of the following expression?

- a. -5
- b. -50
- c. 5
- d. **25**

ANS: C

10. In the following Java statement, what value is stored in the variable **name**?

- a "name'
- b. the memory address where "John Doe" is located
- c. the memory address where name is located
- d. John Doe

ANS: B

11. What is the value of **z** after the following statements have been executed?

- a. 8.25
- b. **4**
- c. 0
- d. 8.0

ANS: D

12. What output will be displayed as a result of executing the following code?

```
int x = 5, y = 20;
x += 32;
y /= 4;
System.out.println("x = " + x + ", y = " + y);
a. x = 160, y = 80
b. x = 32, y = 4
c. x = 37, y = 5
d. x = 9, y = 52
ANS: C
```

13. Which of the following statements will correctly convert the data type, if **x** is a **float** and **y** is a **double**?

```
a. x = float y;
b. x = <float>y;
c. x = (float)y;
d. x = y;
```

ANS: C

14. Which of the following statements is invalid?

```
a. double r = 9.4632E15;
b. double r = 9.4632e15;
c. double r = 2.9X106;
d. double r = 326.75;
```

ANS: C

15. To print "Hello, world" on the monitor, which of the following Java statements should be used?

```
a. System.out.println("Hello, world");
b. System Print = "Hello, world";
c. SystemOutPrintln('Hello, world');
d. system.out.println(Hello, world);
```

ANS: A

16. The **boolean** data type may contain which of the following range of values?

```
a. -128 to + 127
b. true or false
c. -2,147,483,648 to +2,147,483,647
d. -32,768 to +32,767
ANS: B
```

- 17. Variables of the **boolean** data type are useful for
 - a. evaluating conditions that are either true or false
 - b. working with small integers
 - c. working with very large integers
 - d. evaluating scientific notation

ANS: A

18. What would be displayed as a result of executing the following code?

```
int x = 578;
System.out.print("There are " +
x + 5 + "\n" +
"hens in the hen house.");
```

a. There are 583

hens in the hen house.

b. There are 5785

hens in the hen house.

- c. There are x5\nhens in the hen house.
- d. There are 5785 hens in the hen house.

ANS: B

19. What would be displayed as a result of executing the following code?

- a. x = 22, y = 26
- b. x = 22, y = 4
- c. x = 22, y = 88
- d. Nothing. There is an error in the code.

ANS: D

20. What would be displayed as a result of executing the following code?

ANS: D

21. What is the value of **z** after the following code is executed?

```
int x = 5, y = 28;
float z;
z = (float) (y / x);
```

- a. 5.6
- b. 3.0
- c. 5.0
- d. 5.60

ANS: C

22.	Which of the following statements correctly creates a Scanner object for keyboard input?
	 a. Scanner kbd = new Scanner(System.keyboard); b. Scanner keyboard = new Scanner(System.in); c. Scanner keyboard(System.in); d. Keyboard scanner = new Keyboard(System.in);
	ANS: B
23.	Which Scanner class method reads a String?
	a. nextLine b. charAt c. nextString d. getLine
	ANS: A
24.	Which statement tells the compiler where to find the JOptionPane class and makes it available to your program?
	 a. import javax.swing.JOptionPane; b. import Java.Swing.JOptionPane; c. import JOptionPane; d. import javax.JOptionPane;
	ANS: A
25.	The method is used to display a message dialog.
	a. showMessageDialog b. messageDialog c. messageDialogShow d. showDialog
	ANS: A
26.	The primitive data types only allow a(n) to hold a single value.
	a. classb. literalc. objectd. variable
	ANS: D
27.	A Java program must have at least one of the following:
	 a. a comment b. a class definition c. a System.out.println(); statement d. a variable declaration
	ANS: B
28.	A(n) is a dialog box that prompts the user for input. a. input box

- b. user prompt
- c. adaptive dialog
- d. input dialog

ANS: D

- 29. The simplest way to use the **System.out.printf** method is
 - a. with a format string and one format specifier
 - b. with only a format string and no additional arguments
 - c. with a format string and one or more format specifiers
 - d. with only one format specifier and no format string

ANS: B

- 30. If you want to use the **System.out.printf** method to print a string argument, use the ______ format specifier.
 - a. %**d**
 - b. %**b**
 - c. %f
 - d. %s

ANS: D