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Starting Out with Java Early Objects, 5e (Gaddis) Chapter 2 Java Fundamentals

2.1 Multiple Choice Questions

1) Which of the following is not a valid Java comment? A) /** Comment 1 */
B) */ Comment 2 /*
C)// Comment 3
D) /* Comment 4 */
Answer: B
2) When saving a Java source file, save it with an extension of
A).java.
B).javac.
C).src.
D).class.
Answer: A
3) This is a value that is written into the code of a program.
A) Literal R) Assignment statement
B) Assignment statement C) Operator
D) Variable
Answer: A
A) Market benefit to the full control to the first control to full control to the control of the full control to the full cont
4) Which of the following is not a rule that must be followed when naming identifiers? A) After the first character your may use the letters a Z. A. Z. on underscore a dellar sign, or digits 0.0
A) After the first character, you may use the letters a-z, A-Z, an underscore, a dollar sign, or 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.
Answer: B
5) 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
Answer: A

6) What is the result of the following expression?

- A) 105
- B) 12
- C) 7
- D) 8

Answer: C

7) What will be the value of z after the following statements have been executed?

int
$$x = 4$$
, $y = 33$;
double z;
 $z = (double) (y / x)$;

- A) 8.25
- B) 4
- C) 0
- D) 8.0

Answer: D

8) What is the result of the following expression?

- A) -5
- B) -50
- C) 5
- D) 25

Answer: C

- 9) Variables are classified according to their
- A) names.
- B) values.
- C) location in memory.
- D) data type.

Answer: D

10) 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;
- $B) x = \langle float \rangle y;$
- C) x = (float) y;
- $D) \times = y;$

Answer: C

- 11) The boolean data type may contain 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.

Answer: B

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

Answer: C

- 13) This is a named storage location in the computer's memory.
- A) Operator
- B) Constant
- C) Literal
- D) Variable

Answer: D

- 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;

Answer: C

- 15) To print "Hello, world" on the monitor, use the following Java statement:
- A) System.out.println("Hello, world");
- B) System Print = "Hello, world";
- C) SystemOutPrintln('Hello, world');
- D) system.out.println{Hello, world};

Answer: A

- 16) 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.

Answer: A

17) What would be displayed as a result of 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.

Answer: B

18) 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"

Answer: B

19) What will be the displayed when the following code is executed?

```
final int x = 22, y = 4;

y += x;

System.out.println("x = " + x + ", y = " + y);
```

- A) x = 22, y = 26
- B) x = 22, y = 4
- C) x = 22, y = 88
- D) Nothing. There is an error in the code.

Answer: D

- 20) A Java program must have at least one
- A) comment.
- B) System.out.println(); statement.
- C) class definition.
- D) variable declaration.

Answer: C

21) What will be displayed after the following statements have been executed?

- A) x = 27, y = 3.333, z = 18
- B) x = 27, y = 2, z = 18
- C) x = 37, y = -14, z = 4
- D) x = 27, y = 3, z = 18

Answer: D

- 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);

Answer: B

23) What will be the value of z as a result of executing the following code?

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

- A) 5.6
- B) 3.0
- C) 5.0
- D) 5.60

Answer: C

- 24) The primitive data types only allow a(n) _____ to hold a single value.
- A) class
- B) literal
- C) object
- D) variable

Answer: D

- 25) Which Scanner class method reads a String?
- A) nextLine
- B) charAt
- C) nextString
- D) getLine

Answer: A

$26) This statement tells the compiler where to find the \verb JOptionPane class and makes it available to your$
program.
A) import javax.swing.JOptionPane;
B) import Java.Swing.JOptionPane;
C) import JOptionPane;
D) import javax.JOptionPane;
Answer: A
27) The method is used to display a message dialog.
A) showMessageDialog
B) messageDialog
C) messageDialogShow
D) showDialog
Answer: A
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
Answer: D
29) The simplest way you can 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.
Answer: B
30) If you wish to use the System.out.printf method to print a string argument, use the
format specifier.
A) %d
B) %b
C) %f
D) %s
Answer: D

2.2 True/False Questions

1) Programming style includes techniques for consistently putting spaces and indentation in a program so visual cues are created.

Answer: TRUE

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

Answer: FALSE

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

Answer: TRUE

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

Answer: TRUE

5) 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.

Answer: TRUE

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

Answer: FALSE

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

Answer: TRUE

8) Unlike a console program, a program that uses <code>JOptionPane</code> does not automatically stop executing when the end of the <code>main</code> method is reached.

Answer: TRUE

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

Answer: TRUE

10) If you use a flag in a format specifier, you must write the flag before the field width and the precision.

Answer: TRUE