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Chapter 2 Java Fundamentals

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

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.

ANS: T

6. Class names and key words are examples of variables.

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

ANS: T

9. A Java program will not compile unless it contains the correct line numbers.

ANS: F

10. Java is not case sensitive.

ANS: F

11.	If the compiler encounters a statement that uses	a variable before the	variable is declared,	an error will
	result.			

ANS: T

MULTIPLE CHOICE

1. Which of the following is a value that is written into the code of a program?

a. a literal

c. an operator

b. an assignment statement

d. a variable

ANS: A

2. 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

3. Which of the following would contain the translated Java byte code for a program named Demo?

a. Demo.java

c. Demo.class

b. Demo.code

d. Demo.byte

ANS: C

4. Which of the following is a named storage location in the computer's memory?

a. a literal

c. a constant

b. an operator

d. a variable

ANS: D

5. Which of the following is not a valid Java comment?

```
a. /** Comment one */
```

b. */ Comment two /*

c. // Comment threed. /* Comment four */

ANS: B

6. To compile a program named First you would use which of the following commands?

a. java First.java

c. javac First.java

b. javac First

d. compile First.javac

ANS: C

7. A Java source file must be saved with the extension

a. .java

c. .src

b. .javac

d. .class

ANS: A

8.	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					
9.	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					
10.	Variables are classified according to their					
	a. names c. locations					
	b. values d. data types					
	ANS: D					
11.	What is the result of the following expression?					
	17 % 3 * 2 - 12 + 15 a. 105 b. 12 c. 7 d. 8					
	a. 105 b. 12 c. 7 d. 8 ANS: C					
1.0						
12.	What is the result of the following expression? 10 + 5 * 3 - 20					
	a5 b50 c. 5 d. 25					
	ANS: C					
13	In the following Java statement, what value is stored in the variable name ?					
10.	String name = "John Doe";					
	 a. "name" b. the memory address where "John Doe" is located c. the memory address where name is located d. John Doe 					
	ANS: B					
14	What is the value of z after the following statements have been executed?					
1 f.	int $x = 4$, $y = 33$;					
	<pre>double z; z = (double) (y / x);</pre>					
	a. 8.25 b. 4 c. 0 d. 8.0					

15. 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
```

16. 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

17. Which of the following statements is invalid?

```
a. double r = 9.4632E15; c. double r = 2.9x106; b. double r = 9.4632e15; d. double r = 326.75; ANS: C
```

18. 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

19. 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
```

20. 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

21. 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
22. What would be displayed as a result of executing the following code?
      final int x = 22, y = 4;
      y += x;
      System.out.println("x = " + x + ", y = " + y)
    a. x = 22, y = 26
                                      c. x = 22, y = 88
    b. x = 22, y = 4
                                       d. Nothing. There is an error in the code.
   ANS: D
23. What would be displayed as a result of executing the following code?
      int x = 15, y = 20, z = 32;
      x += 12;
      y /= 6;
      z -= 14;
      System.out.println("x = " + x +
                        ", y = " + y +
                        ", z = " + z);
    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
   ANS: D
24. What is the value of z after the following code is executed?
      int x = 5, y = 28;
      float z;
      z = (float) (y / x);
               b. 3.0
                             c. 5.0 d. 5.60
    a. 5.6
   ANS: C
25. 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
```

26.	Which Scanner class method reads a String?				
	a. b.	nextLine charAt	c. d.	nextString getLine	
	AN	S: A			
27.	The	e primitive data types only allow a(n)		_ to hold a single value.	
	a. b.	class literal		object variable	
	ANS: D				
28.	a.	Java, must be declared before the variables literals	-	key words	
	AN	S: A			
29.	a.	Jody, the Giant Buffy, the Barbarian Adelle, the Alligator The top three winners are Jody, the Giant\n The top three winners are Jody, the Giant\nBuffy, the BarbarianAdel	hre Giar Bar he	ee winners are\n"); nt\n"); rbarian"); Alligator"); Try, the Barbarian Adelle, and the Albino	
		Jody, the Giant Buffy, the BarbarianAdelle, the Alligator			
	AN	S: D			
30.	a.	value that is written into the code of a progra literal assignment statement	c.	a(n) variable operator	
	ANS: A				
31.	a.	nen the + operator is used with strings, it is assignment operator string concatenation operator	c.	wn as the addition operator combines assignment operator	
	AN	S: B			
32.	Wh	nat would be printed out as a result of the fol System.out.println("The quick			

	"jumped over the \n" "slow moving hen.");
a.	The quick brown fox jumped over the \nslow moving hen.
b.	The quick brown fox jumped over the
	slow moving hen.
c.	The quick brown fox
	jumped over the

ANS: D

- 33. Which of the following is *not* a rule that must be followed when naming identifiers?
 - a. The first character must be one of the letters a-z, A-Z, and underscore or a dollar sign.
 - b. Identifiers can contain spaces.

slow moving hen.
d. Nothing - this is an error

- c. Uppercase and lowercase characters are distinct.
- d. After the first character, you may use the letters a-z, A-Z, the underscore, a dollar sign, or digits 0-9.

ANS: B

- 34. Which of the following cannot be used as identifiers in Java?
 - a. variable names

c. key words

b. class names

d. objects

ANS: C

- 35. Which of the following is not a primitive data type?
 - a. short

c. float

b. long

d. string

ANS: D

36. Which of the following is valid?

$$y = 54.9;$$

c. float w;
$$w = 1.0f$$
;

b. float y;

$$z = 934.21;$$

$$y = z;$$

d. float
$$v$$
; $v = 1.0$

ANS: C

- 37. If x has been declared an int, which of the following statements is invalid?
 - a. x = 0;

c.
$$x = 1,000;$$

b. x = -59832;

d. x = 592

ANS: C

38. To display the output on the next line, you can use the println method or use the ______ escape sequence in the print method.

a. \n

b. \r

c. \t

d. \b

ANS: A

- 39. Every Java application program must have
 - a. a class named MAIN
 - b. a method named main

- c. at least two data types
- d. integer variables

ANS: B

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

```
int x = 6;
String msg = "I am enjoying this class.";
String msg1 = msg.toUpperCase();
String msg2 = msg.toLowerCase();
char ltr = msg.charAt(x);
int strSize = msg.length();
System.out.println(msg);
System.out.println(msg1);
System.out.println(msg2);
System.out.println("Character at index x = " + ltr);
System.out.println("msg has " + strSize + "characters.");
```

- a. I am enjoying this class.
 I AM ENJOYING THIS CLASS.
 i am enjoying this class.
 Character at index x = e
 msg has 24 characters.
- b. I am enjoying this class.
 I AM ENJOYING THIS CLASS.
 i am enjoying this class.
 Character at index x = e
 msg has 25 characters.
- c. I am enjoying this class.
 I AM ENJOYING THIS CLASS.
 i am enjoying this class.
 Character at index x = n
 msg has 24 characters.
- d. I am enjoying this class.
 I AM ENJOYING THIS CLASS.
 i am enjoying this class.
 Character at index x = n
 msg has 25characters.

ANS: D

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

```
public class test
{
   public static void main(String[] args)
   {
      int value1 = 9;
      System.out.println(value1);
      int value2 = 45;
      System.out.println(value2);
      System.out.println(value3);
      value = 16;
   }
}
```

- a. 9
 - 45 16
- b. 94516

- c. 9 45 16
- d. Nothing. This is an error

ANS: D