## TRUE/FALSE

1. A control's Visible property cannot be modified in code.

ANS: F

2. When you use the *Properties* window to change a control's Visible property at design time, the control will become invisible in the *Designer*.

ANS: F

3. When a method executes, the statements in the method always execute in the order that they appear, from the beginning of the method to the end.

ANS: T

4. Comments are short notes intended for the compiler to read and interpret.

ANS: F

5. If you double-click an error message in the *Error List* window, the code editor will highlight and display the line of code that caused the error.

ANS: T

6. The appearance and other characteristics of a GUI object are determined by the object's properties.

ANS: T

7. Changing a form's Text property will change the form's name.

ANS: F

8. When you create Button controls, they are automatically given default names such as button1, button2, and so forth.

ANS: T

9. A control's name should reflect the purpose of the control.

ANS: T

10. C# identifiers can contain spaces after the first character.

ANS: F

11. The only way to run a program in Visual Studio is to click the *Start Debugging* button on the toolbar.

ANS: F

12. C# source code files always end with the .cs extension.

ANS: T

13. It is important that you do not modify the contents of the Form1.cs file because doing so will prevent the application from executing.

ANS: F

14. Each opening brace ( { )of a code container must have a matching closing brace ( } ) later in the program.

ANS: T

15. When an event handler is generated for a control by Visual Studio, it doesn't do anything until you add your own code.

ANS: T

16. Ending a programming statement with a semicolon is not required in C#.

ANS: F

17. In C# string literals can be enclosed in double quotes, single quotes, or a combination.

ANS: F

18. In a C# application, all buttons on a form must share the same Click event handler in the form's source code file.

ANS: F

19. A Label control's Text property is initially set to the same value as the Label control's name.

ANS: T

20. The assignment operator assigns the value that appears on its left side to the item that appears on its right side.

ANS: F

## **MULTIPLE CHOICE**

- 1. Which of the following is *not* a legal C# identifier?
  - a. \_calculateTotalButton
  - b. printSalesReportButton
  - $c.\ \mbox{clear}$  all the customer names button
  - d. 1stPlayerStartButton

ANS: D

2. Which of the following Button control names is a legal C# identifier?

	<ul> <li>aDisplayOption5Button</li> <li>b. Exit!Button</li> <li>c. *Clear*Button*</li> <li>d. delete Record Button</li> </ul>						
	ANS: A						
3.	The shows a description of an error, the name of the source code file containing the error he error's line number and column number, and the name of the project.						
	0 6		<i>Error List</i> window Just In Time debugger				
	ANS: C						
4.	. To close an application's form in code, use the		statement.				
			<pre>form.Exit(); app.Stop();</pre>				
	ANS: B						
5.	. When you enter a statement into the code editor, found, it is	sual Studio analyzes it and, if a syntax error is					
	5		crossed out highlighted				
	ANS: B						
6.		с.	Program.cs				
	b. Code.cs	d.	Source.cs				
	ANS: C						
7.	. A is a declared block in a program b	oetv	ween braces ( $\{\ldots\}$ ) that holds classes.				
	a. method b. program	с.	namespace d. list				
	ANS: C						
8.	. A(n) is a logical container in a prog	ran	n that holds methods and other program elements.				
	a. event b. program	с.	queue d. class				
	ANS: D						
9.	. The directives that appear at the top the program will use.	of	a C# source code file indicate which namespaces				
	a. include b. namespace d	с.	public d. using				
	ANS: D						
10.	. If you want your code to execute a method, write	f you want your code to execute a method, write a statement known as a(n)					
			initialization routine method call				

ANS: D

11.	1. Which of the following statements correctly displays the	Which of the following statements correctly displays the text Hello in a message box?					
	<ul> <li>a. Messagebox("Hello")</li> <li>b. MessageBox.Show("Hello");</li> <li>c. msgBox(Hello);</li> <li>d. msgBox.show(Hello)</li> </ul>						
	ANS: B						
12.	2. The file named contains code associated with a form named Form1.						
	a. Forml.cs c. Con b. MainForm.cs d. Win	trol.cs dow.cs					
	ANS: A						
13.	3. When you select an object in the Visual Studio <i>Designer</i> , characteristics are displayed in the window.	When you select an object in the Visual Studio <i>Designer</i> , the object's size, color, text, and other characteristics are displayed in the window.					
	a. <i>Designer</i> b. <i>Editing</i> c. <i>Obje</i> ANS: D	ct d. Properties					
14.	4. The Visual Studio window shows a scrollab	'isual Studio window shows a scrollable list of controls that you can add to a form.					
	a. Collection b. Bank c. Tool						
	ANS: C						
15.	5. When a piece of data such as 23 or Hello is written into	a program's code, it is called a					
	a. constant b. sentinel c. value	e d. literal					
	ANS: D						
16.	A(n) is a sequence of one or more programming statements that perform some operation.						
	a. algorithm b. method c. class	d. namespace					
	ANS: B						
17.	A(n) is a method that executes when a specific event such as clicking the mouse takes place while an application is running.						
	a. action sequencerc. evenb. feature coordinatord. incide	t handler lent manager					
	ANS: C						
18.	8. A(n) event occurs on a control when the use running.	A(n) event occurs on a control when the user clicks the mouse while an application is running.					
	a. Action b. Click c. Live	d. Mouse					
	ANS: B						
10							

	a. String	b. Label	c.	Text	d.	Font
	ANS: B					
20.	A propert	y can be set to one of tw	vo po	ossible values: true	e or	false.
	a. Boolean	b. Binary	c.	Singular	d.	Toggle
	ANS: A					
21.	1. In code you use a(n) to store a value in a control's property.					
	a. string literal		c.	dialog box		
	b. assignment statem	ent	d.	constant		
	ANS: B					
22.	2. When a(n) appears around an object in the Visual Studio <i>Designer</i> , it indicates that the					gner, it indicates that the
	object is selected and r	eady for editing.				
	<ul><li>a. sizing handle</li><li>b. editing icon</li></ul>			bounding box frame		
	ANS: C					
	ANS. C					
23.	allow you to resize a selected object in the Visual Studio <i>Designer</i> by clicking and dragging the mouse when the mouse cursor becomes a two-headed arrow.					
	a. Bounding boxes		c.	ToolTips		
	b. Sizing handles		d.	Properties		
	ANS: B					
24.	Which of the following outputLabel?	g statements would displ	lay t	he number 25 in a L	abel	control named

a. outputLabel.Text = 25; b. outputLabel.Text = "25"; c. outputLabel(25); d. outputLabel = "25";

ANS: B

25. Which of the following statements would clear the text displayed in a Label control named cityLabel?

```
a. cityLabel.Text = "empty";
b. cityLabel.Text = "none";
c. cityLabel.Text = "clear";
d. cityLabel = "";
```

ANS: D

- 26. Assuming an application has a PictureBox control named profilePictureBox, which of the following assignment statements will hide the PictureBox from the user at runtime?
  - a. profilePictureBox.Visible = False;
  - b. profilePictureBox.Visible = false;
  - c. profilePictureBox.Visible = True;

	d. profilePictureBox.Visible = true; ANS: B						
27.	Once you have created a PictureBox control, you will display.	se its property to specify the image it					
	a. Picture b. Image	c.	Source d. Display				
	ANS: B						
28.	is a term that refers to an image's width to height ratio.						
			Aspect ratio UV map				
	ANS: C						
29.	are short notes placed in a program	's s	ource code that explain how the program works.				
			Comments Labels				
	ANS: C						
30.	A(n) appears on one line in a program and begins with two forward slashes ( $//$ ).						
			block comment documentation comment				
	ANS: A						
31.	Which of the following are used by professional programmers to embed extensive documentation in a program's source code?						
			documentation comments embedded comments				
	ANS: C						
32.	The property can be used to change a form's width and height.						
			Size				
	b. Resolution ANS: C	a.	Rectangle				
33.	Selecting the button in the <i>Properties</i> window causes the items in the window to be displayed in logical groups.						
	a. Grouped b. Categorized	c.	Ordered d. Type				
	ANS: B						
34.	In the design window, you can click and drag a control to a new location when the mouse cursor is positioned inside the control and becomes a						
			hand icon				
		d.	scissor icon				
	ANS: B						

35.	To delete a control you can select it on a form and press the key.						
	a. Delete	b.	Z	c.	Tab	d.	Х
	ANS: A						
36.	A control's Studio environment.	_ pr	operty identifies the	cont	trol in the application	ion's c	code and in the Visual
	a. Text	b.	Source	c.	Tag	d.	Name
	ANS: D						
37.	Control names are also known as, the same term used for variables in programs.						
	a. tags				values		
	b. identifiers			d.	labels		
	ANS: B						
38.	A file that contains pro	ograr	n code is called a				
	a. source code file			c.	C# file		
	b. program file			d.	cs file		
	ANS: A						
39.	Just as a period marks the end of a statement, a(n) marks the end of a programming statement in C#.						
	a. space	b.	underscore	c.	semicolon	d.	dot
	ANS: C						
40.	When you have a proje application's code is re				time during which	h you	build the GUI and write the
	a. prototyping			c.	visual planning		
	b. design time			d.	application progr	ression	n
	ANS: B						