**Question 1**

**1 / 1 pts**

The primary components of the .NET Framework are the .NET Framework Class Library and the



Command Language Runtime



Common Type Library



Managed Type Runtime

**Correct!**



Common Language Runtime

**Question 2**

**1 / 1 pts**

When you run a Windows Forms project, Visual Studio displays the project’s first

**Correct!**



form



solution



console



class

**Question 3**

**1 / 1 pts**

An assembly is



the source file for a .NET application

**Correct!**



an executable file that includes the MSIL or IL



a container that holds projects



a secondary file required by an application, such as a graphic image or sound file

**Question 4**

**0 / 1 pts**

To run the intermediate language for an application, Visual Studio provides the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**You Answered**



**Correct Answers**

Common Language Runtime

common language runtime

CLR

**Question 5**

**1 / 1 pts**

The C# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ builds the source code in a C# source file into an executable file.

**Correct!**



**Correct Answers**

compiler

**Question 6**

**0 / 1 pts**

A window that appears at the edge of the Visual Studio IDE is called a/an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ window.

**You Answered**



**Correct Answers**

docked

**Question 7**

**1 / 1 pts**

To write the C# code for a form, you use a Visual Studio window called the



Form Designer



Solution Explorer



Toolbox

**Correct!**



Code Editor

**Question 8**

**1 / 1 pts**

A Windows Forms application runs



in a web browser



under control of the compiler

**Correct!**



under the Windows operating system



in the console of Visual Studio

**Question 9**

**0 / 1 pts**

When the code for an application has been translated into intermediate language and is ready to run, it is stored in a/an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**You Answered**



**Correct Answers**

assembly

**Question 10**

**1 / 1 pts**

One of the Visual Studio 2015 languages that can be used for rapid application development is C#. Another language that supports rapid applicaton development is \_\_\_\_\_\_\_\_\_\_\_\_.

**You Answered**



**Correct Answers**

Visual Basic

VB

**Question 11**

**1 / 1 pts**

To change the file name for a form, project, or solution you use the



Form Designer

**Correct!**



Solution Explorer



Code Editor



Toolbox

**Question 12**

**1 / 1 pts**

The Text property of a control determines



the name that you use to refer to the control in your C# code



the name of the control and the text that’s displayed in it



the text that’s displayed in the form

**Correct!**



the text that’s displayed in the control

**Question 13**

**0 / 1 pts**

The title that’s displayed in the title bar of a form is determined by the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ property for the form.

**You Answered**



**Correct Answers**

Text

**Question 14**

**0 / 1 pts**

Which of the following statements is true?

**You Answered**



The Label control has a TabStop property, but it is ignored.



The Label control has a TabStop property and can accept focus.



The Label control has a TabStop property, but can’t accept focus.

**Correct Answer**



The Label control doesn’t have a TabStop property.

**Question 15**

**0 / 1 pts**

To provide for a user entry, you use a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ control.

**You Answered**



**Correct Answers**

text box

TextBox

**Question 16**

**0 / 1 pts**

To align two or more controls after you’ve selected them, you can use



the commands in the Format menu



the buttons in the Layout toolbar

**Correct Answer**



both the Format menu commands and the Layout toolbar buttons

**You Answered**



Format menu commands, Layout toolbar buttons, and properties

**UnansweredQuestion 17**

**0 / 1 pts**

To customize the way Visual Studio works, you can use the \_\_\_\_\_\_\_\_\_\_\_ command in the Tools menu.

**You Answered**



**Correct Answers**

Options

**Question 18**

**1 / 1 pts**

What would you set the Text property of a label to if you want the label to appear as shown below, with the letter *n* as the access key?  




I\*nvoice number

**Correct!**



I&nvoice number



I\_nvoice number



nInvoice number

**Question 19**

**0 / 1 pts**

To create a new Visual Studio project, you select a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from the New Project dialog box to specify the type of project you want to create.

**You Answered**



**Correct Answers**

template

**Question 20**

**0 / 1 pts**

What is the name of the Visual Studio window that contains controls that you can drag onto a form?

**You Answered**



Form Designer

**Correct Answer**



Toolbox



Code Editor



Properties window

**Question 1**

**0 / 1 pts**

Which of the following is *not*a recommended way to improve the readability of your C# code?



Use blank lines before and after groups of related statements.

**Correct Answer**



Use all capital letters for variable names.

**You Answered**



Use indentation to align related elements of code.



Use spaces to separate words, values, and operators.

**Question 2**

**1 / 1 pts**

When an application encounters a problem that prevents a statement from being executed,



a syntax error occurs

**Correct!**



a runtime error occurs



a debugging error occurs



a build error occurs

**Question 3**

**1 / 1 pts**

Write a statement that sets the ReadOnly property of a control named txtDate to true.  
  
**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Correct!**



**Correct Answers**

txtDate.ReadOnly = true;

**Question 4**

**1 / 1 pts**

When you test an application, your goal is to

**Correct!**



find runtime errors



fix runtime errors



find syntax errors



fix syntax errors

**Question 5**

**1 / 1 pts**

C# statements must end with a

**Correct!**



semicolon - ;



period - .



slash - /



colon - :

**Question 6**

**1 / 1 pts**

What is another name for a runtime error?



event

**Correct!**



exception



erratum



break

**Question 7**

**0 / 1 pts**

What does the following code do?  
**txtMonthlyInvestment.Focus();**



calls the Focus method of the current form instance

**Correct Answer**



calls the Focus method of the txtMonthlyInvestment control

**You Answered**



calls the txtMonthlyInvestment method of the Focus control



calls the () method of the txtMonthlyInvestment.Focus control

**Question 8**

**1 / 1 pts**

Blocks of code are enclosed in



parentheses - ( )



brackets - [ ]

**Correct!**



braces - { }



slashes - / /

**Question 9**

**1 / 1 pts**

Write a statement that calls the Focus method of a control named txtLastName.  
  
**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Correct!**



**Correct Answers**

txtLastName.Focus();

**Question 10**

**1 / 1 pts**

Write the code for a comment that you could add to the end of the following line of code. The comment should read “currency format”.  
  
**string amount = total.ToString("c");  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Correct!**



**Correct Answers**

// currency format

**Question 11**

**1 / 1 pts**

Which built-in data type is the most precise type for storing monetary values?



double



single

**Correct!**



decimal



money

**Question 12**

**0 / 1 pts**

By default, you can assign a null value to a variable that’s a reference type. But to assign a null value to a variable that’s a value type, you need to declare the variable as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**You Answered**



**Correct Answers**

nullable type

nullable data type

**Question 13**

**1 / 1 pts**

If you use standard rounding with the Round method of the Math class, a positive number that ends in 5



is always rounded to the nearest even number



is always rounded to the nearest odd number

**Correct!**



is always rounded up to the next number



is always rounded down to the next number

**Question 14**

**0 / 1 pts**

Which of the following statements results in a string that appears like this when displayed?  
**c:\murach\files**

**Correct Answer**



**String s = @"c:\murach\files";**



**String s = "@c:\murach\files";**

**You Answered**



**String s = @c:\murach\files@;**



**String s = "@c:\murach\files@";**

**Question 15**

**1 / 1 pts**

**Code Example 4-1**  
**decimal a = 2.5m;  
decimal b = 4.0m;  
decimal c = 12.7m;  
  
int i = 4;  
int j = 8;  
int k = 17;**

(Refer to Code Example 4-1.) What is the value of x after the following statement is executed?  
**decimal x = a + b;**



2.5



6

**Correct!**



6.5



10.0

**Question 16**

**1 / 1 pts**

Why won’t the following statement compile?  
**int TaxRate = 0.05d;**



TaxRate isn’t camel notation



the value isn’t a decimal value

**Correct!**



the value shouldn’t be followed by a letter



the value should be enclosed in quotes

**Question 17**

**0 / 1 pts**

The type of rounding that causes a number that’s midway between two whole numbers to always be rounded to the even number is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ rounding.

**You Answered**



**Correct Answers**

banker's

**Question 18**

**1 / 1 pts**

Each reference data type is defined by a \_\_\_\_\_\_\_\_\_\_\_\_\_.

**Correct!**



**Correct Answers**

class

**Question 19**

**0 / 1 pts**

Assuming that total is a decimal variable, which of the following statements does *not*convert it to a string?

**You Answered**



**string s = "Total: " + total;**

**Correct Answer**



**string s = String.Parse(total);**



**string s = total.ToString();**



**string s = Convert.ToString(total);**

**Question 20**

**0 / 1 pts**

Given double variables a and b that contain the lengths of the two short sides of a right triangle, write a statement that uses the methods of the Math class to calculate the length of the third side. Save the result in a new double variable named c. The formula is:  
  
  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**You Answered**



**Correct Answers**

double c = Math.Sqrt(Math.Pow(a, 2) + Math.Pow(b, 2));

**Question 1**

**0 / 1 pts**

What must you do if you code an infinite loop in an application?



Use a counter variable to determine when the loop ends



Use a Boolean expression to determine when the loop ends



Code just a single statement within the loop



Cancel the application to end the loop

**Question 2**

**1 / 1 pts**

To code a Boolean expression, you use \_\_\_\_\_\_\_\_\_\_\_\_ operators.



**IncorrectQuestion 3**

**0 / 1 pts**

If you use a short-circuit logical operator to combine two expressions



both expressions are always evaluated



the second expression is evaluated only if it can affect the result



the first expression is evaluated only if it can affect the result

**Question 4**

**1 / 1 pts**

If you code a continue statement in a loop, it will cause the application



to jump to the beginning of the loop



to jump to the end of the loop



to enter break mode



to jump out of the loop

**IncorrectQuestion 5**

**0 / 1 pts**

To enter break mode as an application is executing, you can set a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.



**Question 6**

**1 / 1 pts**

In a do-while loop, the Boolean expression is tested



before the loop is executed



after the loop is executed



both before and after the loop is executed

**IncorrectQuestion 7**

**0 / 1 pts**

If you code a break statement in a loop, it will cause the application



to jump to the beginning of the loop



to jump to the end of the loop



to enter break mode



to restart the loop

**IncorrectQuestion 8**

**0 / 1 pts**

If orderTotal has a value of 50 and quantity has a value of 10, what is the value of discount after these statements are executed?  
**if (quantity == 1 || quantity == 2)  
    discount = 0;  
else if (quantity >= 3 && quantity < 10)  
    discount = orderTotal \* .1;  
else if (quantity > 10 && quantity <= 25)  
    discount = orderTotal \* .2;  
else  
    discount = orderTotal \* .3;**



15



10



5



0

**Question 9**

**1 / 1 pts**

An if statement that’s coded within another if statement is called a/an \_\_\_\_\_\_\_\_\_\_\_\_ if statement.



**IncorrectQuestion 10**

**1 / 1 pts**

To implement the iteration structure, you can use a for, while, or \_\_\_\_\_\_\_\_\_\_\_\_\_\_ statement.



**IncorrectQuestion 11**

**0 / 1 pts**

What is the value of sum after the following code is executed?  
**int sum = 0;  
for (int i = 2; i < 10; i += 2)  
{  
    sum += i;  
}**



20



30



44



54

**Question 12**

**1 / 1 pts**

If quantity has a value of 2, what is the value of discount after these statements are executed?  
**switch (quantity)  
{  
    case 1:  
        discount = 0;  
        break;  
    case 2:  
    case 3:  
        discount = .1;  
        break;  
    default:  
        discount = .2;  
        break;  
}**



0



.1



.2



2

**IncorrectQuestion 13**

**0 / 1 pts**

To implement the case structure, you use a/an \_\_\_\_\_\_\_\_\_\_\_\_\_\_ statement.



**IncorrectQuestion 14**

**0 / 1 pts**

What is the value of sum after the following code is executed?  
**int sum = 0;  
for (int i = 10; i < 40; i \*= 2)  
{  
    sum += i;  
}**



20



30



70



80

**Question 15**

**1 / 1 pts**

Which of the following operators is *not* a relational operator?



=



!=



>



<=

**Question 16**

**1 / 1 pts**

Which of the following operators is *not* a logical operator?



!



|



>



&&

**IncorrectQuestion 17**

**0 / 1 pts**

When you set a breakpoint at a statement and run the application, the application enters break mode



whenever a runtime error occurs at that statement



just before the start of the method that contains the statement



right after that statement is executed



just before that statement is executed

**IncorrectQuestion 18**

**0 / 1 pts**

What is the value of the variable named counter after the following statements are executed?  
**double percent = 0.54;  
bool valid = true;  
int counter = 1;  
if ((percent > 0.50) && (valid == true))  
{  
    counter += 2;  
    if (valid == true)  
        counter++;  
    else if (percent >= 0.50)  
        counter += 3;  
}  
else  
    counter++;**



2



3



4



7

**Question 19**

**1 / 1 pts**

To combine two or more Boolean expressions into a single expression, you use \_\_\_\_\_\_\_\_\_\_\_\_ operators.



**IncorrectQuestion 20**

**0 / 1 pts**

Unlike an if-else statement, a switch statement



can’t test for a default condition



can’t be nested within another switch statement



can’t perform an operation based on the result of a boolean expression

**Question 1**

**0 / 1 pts**

The process of connecting an event of an object to an event handler is called \_\_\_\_\_\_\_\_\_\_\_\_ the event.



**Question 2**

**1 / 1 pts**

What keyword do you code at the beginning of a method that’s only available within the current class?



public



private



void



return

**Question 3**

**1 / 1 pts**

For each parameter in the parameter list for a method, you must code



the name of the parameter followed by the data type of the parameter



the data type of the parameter followed by the name of the parameter



the name of the parameter only



the data type of the parameter only

**Question 4**

**1 / 1 pts**

Which of the following statements would you use to pass a variable named message by reference to a method named DisplayMessage?



**DisplayMessage(reference message);**



**DisplayMessage(ref message);**



**DisplayMessage(message reference);**



**DisplayMessage(message ref);**



**DisplayMessage(message);**

**Question 5**

**1 / 1 pts**

The signature of a method is formed by the



name of the method only



name of the method and its return type



name of the method and its parameter list



name of the method, its return type, and its parameter list

**Question 6**

**1 / 1 pts**

To generate an event handler for a control event, you can display the Events list for the control and then



select a name from the drop-down list for the event



click on the event



double-click on the event



right-click on the event and select the Generate Handler command

**Question 7**

**1 / 1 pts**

When you call a method, you must include the \_\_\_\_\_\_\_\_\_\_\_\_ required by the method.



**Question 8**

**1 / 1 pts**

Code a statement that calls a method in the current form named SetButtons that accepts a Boolean value, but does not return a value. Pass the value “false” to this method, and use the this keyword to indicate where the method can be found.  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Question 9**

**1 / 1 pts**

Which of the following code examples passes an argument by name?



**subtotal:subtotal**



**subtotal:=subtotal**



**subtotal=subtotal**



**subtotal=:subtotal**

**Question 10**

**1 / 1 pts**

The \_\_\_\_\_\_\_\_\_\_\_\_ for a method determines whether or not the method can be called by other classes.



**Question 11**

**1 / 1 pts**

If a method returns a value and its parameters are passed by value, the code within the method must include a/an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ statement.



**Question 12**

**1 / 1 pts**

Which of the following is *not* an advantage of passing arguments by name?



You don’t have to indicate if an optional parameter has been omitted



You don’t have to know the name of the associated parameter



You can pass some arguments by name even if other arguments are passed by position



You can pass the arguments in any order

**Question 13**

**1 / 1 pts**

Which of the following statements would you use to call a private method named InitializeVariables that accepts no parameters and doesn’t return a value?



**InitializeVariables(void);**



**void InitializeVariables();**



**InitializeVariables();**



**void InitializeVariables(void);**

**Question 14**

**1 / 1 pts**

What keyword do you code for the return type of a method that doesn’t return any data?



null



void



ref



return

**IncorrectQuestion 15**

**0 / 1 pts**

Which of the following statements would be used to wire the Click event of a button named btnClear to an event handler named ClearControls?



**this.btnClear.Click += System.EventHandler(this.ClearControls);**



**this.btnClear.Click += new System.EventHandler(this.ClearControls);**



**this.ClearControls += System.EventHandler(this.btnClear.Click);**



**this.ClearControls += new System.EventHandler(this.btnClear.Click);**

**Question 16**

**1 / 1 pts**

If the following GetInterest method uses a decimal variable named interest to store the interest amount, which statement can you use to return the interest amount?  
**private decimal GetInterest(int years,  
    decimal interestRate, decimal principle)**



**Return Interest;**



**return dec interest;**



**return decimal interest;**



**return interest;**

**Question 17**

**1 / 1 pts**

When a call statement passes a variable as an argument to a method by reference, the called method can change the value of the variable in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ method.



**Question 18**

**1 / 1 pts**

An object that’s used to connect an event to an event handler is known as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_.



**Question 19**

**1 / 1 pts**

Code a statement that calls a method named CalculateSalesTax, adds the result of this method to a variable named subtotal, and stores the result in a variable named total. Assume that the CalculateSalesTax method accepts the subtotal as a parameter, and use the this keyword to indicate where the method can be found.  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Question 20**

**1 / 1 pts**

If you declare a parameter for a method as optional,



the user must not provide a value for the parameter



the parameter must be assigned a constant value as its default



it must be declared before any required parameters



the value for the parameter must be passed by name

**Question 1**

**1 / 1 pts**

What statement causes a new exception to occur?



finally



catch



throw



try-catch

**Question 2**

**1 / 1 pts**

When validating data entered into the text boxes of a form, it is *not* common to check whether



all required entries have been made



all text entries are non-numeric



all numeric entries can be converted to the appropriate data type



all numeric entries fall within a specified range

**Question 3**

**1 / 1 pts**

The process of preventing exceptions from causing runtime errors is called  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.



**Question 4**

**1 / 1 pts**

To display a dialog box, you can use the Show method of



the DialogBox class



a DialogBox object



the MessageBox class



a MessageBox object

**Question 5**

**1 / 1 pts**

In a try-catch statement, the finally block is executed



if an exception occurs in the try block



if an exception does not occur in the try block



if a catch block is executed



whether or not an exception occurs or a catch block is executed

**Question 6**

**1 / 1 pts**

To test the catch blocks in a try-catch statement, you can code \_\_\_\_\_\_\_\_\_\_\_\_\_ statements.



**Question 7**

**1 / 1 pts**

All exceptions are derived from the .NET \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ class.



**Question 8**

**1 / 1 pts**

You may want to code generic methods for data validation because



they’re always more efficient



they allow you to reuse your data validation code



they’re the only way to perform range checking



they prevent all exceptions from being thrown

**Question 9**

**1 / 1 pts**

In a try-catch statement, a catch block for the Exception class can be used to catch



casting exceptions



arithmetic exceptions



format exceptions



any exceptions that aren’t caught by previous catch blocks

**Question 10**

**1 / 1 pts**

**Code example 7-1**  
  
**private void btnCalculate\_Click(object sender, System.EventArgs e)  
{  
    decimal weightInPounds = 0m;  
    try  
    {  
        weightInPounds = Convert.ToDecimal(txtPounds.Text);  
        if (weightInPounds > 0)  
        {  
            decimal weightInKilos = weightInPounds / 2.2m;  
            lblKilos.Text = weightInKilos.ToString("f2");  
        }  
        else  
            MessageBox.Show("Weight must be greater than 0.", "Entry error");  
           txtPounds.Focus();  
    }  
    catch(FormatException)  
    {  
        MessageBox.Show("Weight must be numeric.", "Entry error");  
        txtPounds.Focus();  
    }  
}**

(Refer to code example 7-1.) If the user clicks the Calculate button without entering data in the text box, what does the code do?



It calculates the weight in kilograms.



It causes a runtime error.



It displays a dialog box with the message “Weight must be greater than 0.”



It displays a dialog box with the message “Weight must be numeric.”

**Question 11**

**1 / 1 pts**

The list of methods that were called before an exception occurred is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.



**UnansweredQuestion 12**

**0 / 1 pts**

Instead of using a try-catch statement to catch the exception that’s thrown when you convert a text box entry that has an invalid decimal format, you can use the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ method of the Decimal class to return a false value if the entry can’t be converted.



**IncorrectQuestion 13**

**0 / 1 pts**

**Code example 7-1**  
  
**private void btnCalculate\_Click(object sender, System.EventArgs e)  
{  
    decimal weightInPounds = 0m;  
    try  
    {  
        weightInPounds = Convert.ToDecimal(txtPounds.Text);  
        if (weightInPounds > 0)  
        {  
            decimal weightInKilos = weightInPounds / 2.2m;  
            lblKilos.Text = weightInKilos.ToString("f2");  
        }  
        else  
            MessageBox.Show("Weight must be greater than 0.", "Entry error");  
           txtPounds.Focus();  
    }  
    catch(FormatException)  
    {  
        MessageBox.Show("Weight must be numeric.", "Entry error");  
        txtPounds.Focus();  
    }  
}**

(Refer to code example 7-1.) If the user enters 118 in the text box and clicks the Calculate button, what does the code do?



It calculates the weight in kilograms.



It causes a runtime error.



It displays a dialog box with the message “Weight must be greater than 0.”



It displays a dialog box with the message “Weight must be numeric.”

**Question 14**

**1 / 1 pts**

If a text box entry can’t be converted to a numeric data type, a/an \_\_\_\_\_\_\_\_\_\_\_\_\_\_ exception occurs.



**Question 15**

**1 / 1 pts**

Consider the code that follows. What does it do?  
**string value = "2";  
try  
{  
    int num = Convert.ToInt32(value);  
}  
MessageBox.Show("Valid integer");  
catch(FormatException)  
{  
    MessageBox.Show("Invalid integer");  
}**



It displays a dialog box with the message “Valid integer”.



It displays a dialog box with the message “invalid integer”.



The code doesn’t compile.



The code compiles but causes a runtime error.

**Question 16**

**1 / 1 pts**

To get a description of an exception that has been caught, you can use the exception’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_ property.



**Question 17**

**1 / 1 pts**

The process of checking a value to be sure that it’s not less than a minimum value and not greater than a maximum value is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.



**Question 18**

**1 / 1 pts**

To determine the cause of an exception, you can



use the name of the exception class that’s displayed



use the error message that’s displayed



use the information in the stack trace



all of the above

**Question 19**

**1 / 1 pts**

If a value that’s assigned to an int variable is too large to be stored in it, a/an \_\_\_\_\_\_\_\_\_\_\_\_\_\_ exception occurs.



**Question 20**

**1 / 1 pts**

The code within a catch block is executed when



the code in the try block doesn’t compile



a method in the try block throws an exception



the try block finishes executing



a runtime error occurs

**Question 1**

**1 / 1 pts**

Given a typed List collection of int values named dueDays, code a statement that adds the value 120 to the end of the array.  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Question 2**

**1 / 1 pts**

**Code example 8-1**  
**Queue<String> productQueue = new Queue<String>();  
productQueue.Enqueue("Plate");  
productQueue.Enqueue("Bowl");  
productQueue.Enqueue("Cup");  
productQueue.Enqueue("Saucer");**

(Refer to code example 8-1.) What is the value of product after the following code is executed?  
**string product = productQueue.Dequeue();**



Plate



Bowl



Cup



Saucer

**Question 3**

**1 / 1 pts**

Given a one-dimensional array named yearlySalesTotals that contains decimal values, code the first line of a foreach statement that will let you access each element in the array in a variable named yearlySalesTotal.  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Question 4**

**1 / 1 pts**

Which of the following statements determines the number of strings in the array that follows?  
**string[] customers = new string[55];**



**int size = customers.UpperBound;**



**int size = customers.Length;**



**int size = customers.Size();**



**int** **size = Arrays.Size(customers);**

**UnansweredQuestion 5**

**0 / 1 pts**

You can use the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ operator to prevent a NullReferenceException from being thrown.



**Question 6**

**1 / 1 pts**

When you declare and initialize the values in an array, you are actually creating an instance of what class?



String



SortedList



ArrayList



Array

**Question 7**

**1 / 1 pts**

Which of the following method declarations is valid for a method that accepts an array of strings named customerNames?



**private string[] ParseCustomerNames(customerNames){}**



**private void ParseCustomerNames(customerNames){}**



**private void ParseCustomerNames(customerNames string[]){}**



**private void ParseCustomerNames(string[] customerNames){}**

**Question 8**

**1 / 1 pts**

Code a statement that declares a typed List collection named dueDays that will hold int values.  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Question 9**

**1 / 1 pts**

What is the value of lists after the statements that follow are executed?  
**string[,] names = new string[200,10];  
int lists = names.GetLength(0);**



9



10



199



200



code doesn’t compile

**Question 10**

**1 / 1 pts**

When compared to untyped collections, typed collections reduce the amount of \_\_\_\_\_\_\_\_\_\_\_\_\_ that’s required.



**Question 11**

**1 / 1 pts**

The difference between a Queue and a Stack collection is that a Queue removes elements on a FIFO basis and a Stack removes them on a/an \_\_\_\_\_\_\_\_\_\_\_\_\_ basis.



**Question 12**

**1 / 1 pts**

What is the value of kilos[1] after the code that follows is executed?  
**decimal[] kilos = {200, 100, 48, 59, 72};  
for (int i = 0; i < kilos.Length; i++)  
{  
    kilos[i] \*= 2.2;  
}**



200.0



100.0



440.0



220.0

**IncorrectQuestion 13**

**0 / 1 pts**

Declare and instantiate an array of strings named titles that contains 4 elements.  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**UnansweredQuestion 14**

**0 / 1 pts**

Instead of using the Add method to add elements to a list, you can use a/an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to assign values to the list when you create it.



**Question 15**

**1 / 1 pts**

Which of the following statements declares a valid rectangular array?



**string[,] js = new string[,];**



**string[,] js = new string[4,4];**



**string[][] js = new string[][];**



**string[][] js = new string[4][4];**

**Question 16**

**1 / 1 pts**

Which of the following is *not* true about the null-conditional operator?



It prevents a NullReferenceException.



If it finds a null value, no further operations take place.



It checks the object or element that preceeds it for a null value.



It can only be used with reference types.

**Question 17**

**1 / 1 pts**

What happens when the code that follows is executed?  
**string[] names = new string[5];  
string name1 = names?[0]?;**



The value of the first element in the array is assigned to the name1 variable.



A null value is assigned to the name1 variable.



A NullReferenceException is thrown because the array elements haven’t been initialized.



A NullReferenceException is thrown because the values of the array elements are null.

**IncorrectQuestion 18**

**0 / 1 pts**

What is the value of length after the code that follows is executed?  
**int[][] nums = { new int [] {1, 2, 3},  
                 new int [] {3, 4, 5, 6, 8},  
                 new int [] {1},  
                 new int [] {8, 8} };  
int length = nums.GetLength(0);**



1



2



3



4



5

**Question 19**

**1 / 1 pts**

Which of the following statements declares a valid jagged array?



**string[4][] js = new string[][];**



**string[][4] js = new string[][];**



**string[][] js = new string[4][];**



**string[][] js = new string[][4];**

**IncorrectQuestion 20**

**1 / 1 pts**

Rewrite the statement that follows that creates and loads a sorted list so it uses an index initializer within the collection initializer.  
**SortedList<string, int> studentScores = new SortedList<string, int>  
    { { "WilliamsS", 98 }, { "ThomasB", 84 }, { "JonesA", 92 } };**



**Question 1**

**0 / 1 pts**

You can  use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ strings instead of the Format method of the string class to format numbers, dates, and times.



**Question 2**

**1 / 1 pts**

You use the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ structure to represent dates and times.



**Question 3**

**1 / 1 pts**

Code a statement that adds 15 days to a DateTime value named dueDate.  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Question 4**

**1 / 1 pts**

What is the value of the variable named s2 after the following statements have been executed?  
**string s1 = "118-45-9271";  
string s2 = "";  
for (int i = 0; i < s1.Length; i++)  
    if (s1[i] != '-')  
        s2 += s1[i];  
s2 = s2.Replace('-', '.');**



**118-45-9271**



**172954811**



**118459271**



**118.45.9271**

**Question 5**

**1 / 1 pts**

A primary difference between an object created from the String class and an object created from the StringBuilder class is that a StringBuilder object is



immutable



mutable



a reference type



a value type

**Question 6**

**1 / 1 pts**

Which of the following statements refers to the second character in a String object named address?



**char c = address(1);**



**char c = address(2);**



**char c = address[1];**



**char c = address[2];**

**IncorrectQuestion 7**

**0 / 1 pts**

Given the string that follows, code a statement that removes the hyphens from the string and stores the result in the same string variable.  
  
**string crnum = "1111-2222-3333-4444";**  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Question 8**

**1 / 1 pts**

What is the value of the variable named s after the following statements are executed?  
**decimal d = 3892.22m;  
string s = String.Format("{0:c}", d);**



3892



3892.22



3,892.22



$3,892.22

**Question 9**

**1 / 1 pts**

What is the value of the variable named s after the following statements have been executed?  
**string fullName = "Miller, Edward";  
int i = fullName.IndexOf(",");  
string s = fullName.Substring(i + 1);**



Miller,



Miller



, Edward



Edward

**Question 10**

**1 / 1 pts**

If a variable named date contains a valid DateTime value, which of the following statements checks if the date falls in a leap year?



**bool isLeap = date.IsLeapYear;**



**bool isLeap = date.IsLeapYear();**



**bool isLeap = DateTime.IsLeapYear(date);**



**bool isLeap = DateTime.IsLeapYear(date.Year);**

**IncorrectQuestion 11**

**0 / 1 pts**

The string keyword is an alias for the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ class.



**Question 12**

**1 / 1 pts**

Which statement determines the due date for an invoice that is due 45 days after the invoice date?



**DateTime dueDate = invoiceDate.Add(45);**



**DateTime dueDate = invoiceDate.AddDays(45);**



**DateTime dueDate = invoiceDate.Add(new TimeSpan(45));**



**DateTime dueDate = invoiceDate.Add(DateTime.DAYS, 45);**

**Question 13**

**1 / 1 pts**

What method can you use to remove spaces from the beginning and end of a string?



Remove



Trim



Parse



Split

**Question 14**

**1 / 1 pts**

Code a statement that creates a DateTime value named thisDay that’s set to the current date and time.  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Question 15**

**1 / 1 pts**

Which of the following statements creates a DateTime value whose date is set to March 28, 2016 (assume the computer’s regional settings are configured for the United States)?



**DateTime date = new DateTime("03/28/2016");**



**DateTime date = DateTime.Parse("03/28/2016");**



**DateTime date = date.Parse("03/28/2016");**



**DateTime date = new DateTime().Parse("03/28/2016");**

**Question 16**

**1 / 1 pts**

To convert a StringBuilder object to a String, you can use



the ToString method of the object



the ToString method of the Convert class



the Parse method of the String class



the Parse method of the object

**IncorrectQuestion 17**

**0 / 1 pts**

Given an empty StringBuilder object named cn, add this value to it: 2375.  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Question 18**

**1 / 1 pts**

Code a statement that creates a DateTime value named dueDate that’s set to the date December 31, 2015.  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Question 19**

**1 / 1 pts**

In C#, dates and times are actually stored as the number of



milliseconds that have elapsed since January 1, 0001



seconds that have elapsed since January 1, 0001



minutes that have elapsed since January 1, 0001



ticks that have elapsed since January 1, 0001

**IncorrectQuestion 20**

**0 / 1 pts**

The  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ class lets you create mutable strings.



**Question 1**

**1 / 1 pts**

The fields of a class



are the variables that are defined at the class level



must be instance variables



must be reference types



must be value types

**Question 2**

**1 / 1 pts**

When you design and develop business classes for an application, your goal is to



allow development to be spread among members of a development team



separate the business rules from the presentation and database logic



make the application easier to develop and maintain



all of the above

**Question 3**

**1 / 1 pts**

You can use the live code analysis feature to generate a/an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for any class or member.



**Question 4**

**1 / 1 pts**

Code a statement that creates an instance of an Account class using the default constructor and stores the object that’s created in a variable named account.  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Question 5**

**1 / 1 pts**

What feature are you taking advantage of when you call the ToDecimal method of the Convert class without knowing how it’s coded?



instantiation



encapsulation



inheritance



modeling

**IncorrectQuestion 6**

**0 / 1 pts**

To create an instance of a class and assign values to it in a single statement without explicitly calling a constructor, you can use a/an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.



**Question 7**

**1 / 1 pts**

When can you *not* code a method using an expression body?



When the method returns a simple expression



When the method returns a compound expression



When the method executes a single statement



When the method executes a block of statements

**IncorrectQuestion 8**

**0 / 1 pts**

Code the declaration for an auto-implemented property named Title that works with a string. The property should be read-only and its private instance should be initialized to “Entry Error”.  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Question 9**

**1 / 1 pts**

To browse the classes in a solution, you can use



The Solution Explorer



The Class Details window



a class diagram



the CodeLens feature

**Question 10**

**1 / 1 pts**

Code a statement that will get the value of a public static field named Count that’s defined in the Account class, and store the value in a new int variable named count. Assume that you’ve already created an object from this class that’s named account.  
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**IncorrectQuestion 11**

**0 / 1 pts**

A property that’s coded without get and set accessors is called a/an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ property.



**IncorrectQuestion 12**

**0 / 1 pts**

To review the members of two or more classes at the same time, you can use



the Solution Explorer



the Class Details window



a class diagram



the CodeLens feature

**IncorrectQuestion 13**

**0 / 1 pts**

To refer to a member of the parent class when you’re coding a child class, you can use the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ keyword.



**Question 14**

**1 / 1 pts**

In the System.Windows.Forms namespace, the Control class



provides properties and methods that all controls in the namespace have in common



inherits the properties and methods from all of the control classes in the namespace



is the base class for the Button, TextBox, and Label classes, but not the Form class



is a child class of the Form class

**Question 15**

**1 / 1 pts**

**Code example 14-1  
public class SavingsAccount : Account  
{  
    public SavingsAccount() : base()  
    {  
        base.Type = "Savings";  
    }  
  
    public SavingsAccount(int number) : base(number)  
    {  
        base.Type = "Savings";  
    }  
  
    public SavingsAccount(int number, decimal balance) :  
        base(number, "Savings", balance)  
    {  
    }  
}**

(Refer to code example 14-1.) Which of the following statements creates an object of the Account class?



**Account** **account = new Account(1223, 0.0m);**



**Account** **account = new Account("Checking");**



**Account account = new Account("1111", 550.00m);**



**Account account = new Account(111, "Checking", 0.0m);**

**IncorrectQuestion 16**

**0 / 1 pts**

Which of the following is *not* a reason to declare a class as sealed?



To prevent others from inheriting the class



To improve efficiency



To prevent others from changing how the methods work



To give a class more functionality

**Question 17**

**1 / 1 pts**

A protected method defined within a base class is available to



only the base class



only classes derived from the base class



both the base class and classes derived from it



neither the base class nor classes derived from it

**Question 18**

**1 / 1 pts**

A class can



have only one derived class



be the base class for only one derived class



be only a base class or a derived class



be both a base class and a derived class

**Question 19**

**1 / 1 pts**

The ToString, Equals, and GetHashCode methods are available to all objects because



they are defined in the System namespace



they are inherited by the System.Object class, which all other objects are based on



they are members of the System.Object class, which all objects inherit



they are defined with public access

**Question 20**

**1 / 1 pts**

Which of the following declarations defines a Student class that inherits a Person class?



**public class Person : Student**



**public class Student : Person**



**public class Person extends Student**



**public class Student inherits Person**