1. To store a value for later use in Python, the programmer needs to create a:

A. number

B. characterC. variableD. boolean

**Section** 2.1 Variables

**Title** What is the term used to store a value for later use in a Python program?

type mc section 2.1 Variables

id testbank-py-1-ch02-01

- 2. How is a value stored in a variable?
  - A. an assignment statement
  - B. an expression
  - C. a print statement
  - D. an equality statement

**Section** 2.1 Variables

**Title** How is a value stored in a variable?

type mc

section 2.1 Variables

id testbank-py-1-ch02-03

3. What is the value of the variable num after the following code snippet?

```
num = 5
num2 = 6
num = num2 + 3
```

A. 5

B. 9

C. 8

D. 11

**Section** 2.1 Variables

**Title** What is the value of the variable num after the following code statement?

type m

section 2.1 Variables

id testbank-py-1-ch02-04

4. What is the right way to assign the value of num + 10 to num2?

A. num2 = num + 10

B. num = num2 + 10

C. num2 + 10 = num

D. num + 10 = num2

**Section** 2.1 Variables

Title What is the right way to assign the value of num + 10 to num2?

type mc

section 2.1 Variables

id testbank-py-1-ch02-06

5. What is wrong with the following code snippet?

- A. The 2ndNum variable is never assigned a value
- B. The 2ndNum variable is assigned a non-numeric value
- C. The 2ndNum variable is not a valid variable name
- D. The 2ndNum variable is never initialized

**Section** 2.1 Variables

**Title** What is wrong with the following code snippet?

type mc

section 2.1 Variables

id testbank-py-1-ch02-08

- 6. What is a variable called that should remain unchanged throughout your program?
  - A. a constant variable
  - B. a data variable
  - C. a string variable
  - D. a boolean variable

**Section** 2.1 Variables

**Title** What is a variable called that should remain unchanged throughout your program?

type mo

section 2.1 Variables

id testbank-py-1-ch02-09

- 7. Which of the following variables should be coded as a constant in Python?
  - A. character: 'a' B. string: "hello" C. number: 1234 D. pi: 3.14159

**Section** 2.1 Variables

**Title** Python naming conventions for variables

type mc

section 2.1 Variables

id testbank-py-1-ch02-10

- 8. Which of the following variable names follows the Python naming convention for constants?
  - A. maxSize
  - B. MAXSIZE
  - C. MAX SIZE
  - D. max\_size

**Section** 2.1 Variables

**Title** Python naming conventions for variables

type mc

section 2.1 Variables

id testbank-py-1-ch02-11

- 9. Why is it important to follow Python naming standards for variables representing constants?
  - A. it is good programming style
  - B. it is required by the Python programming language
  - C. it is required by graphic programs
  - D. it is required for all non-zero numbers

**Section** 2.1 Variables

**Title** Python naming conventions for variables

type mc

section 2.1 Variables

id testbank-py-1-ch02-12

10. Which of the following is an appropriate constant name to represent the number of pencils in a pack?

A. NUM\_PENCILS\_PER\_PACK = 12
B. numPencilsPerPack = 12
C. NUMpencilsPERpack = 12
D. numpencilsperpack = 12

Section 2.1 Variables

**Title** Which of the following is an appropriate constant name to represent the number of pencils

in a pack?

type me

from testbank-py-1-ch02-14

section 2.1 Variables

id testbank-py-2-ch02-14

- 11. A variable is:
  - A. A storage location with a name
  - B. An assignment statement
  - C. An expression
  - D. A point in a program where a decision is made

**Section** 2.1 Variables

**Title** What is the definition of a variable?

type mo

from testbank-py-1-ch02-02

section 2.1 Variables

id testbank-py-2-ch02-02

12. What is wrong with this assignment statement?

num + 10 = num2

- A. The left hand side of an assignment statement cannot include an operator.
- B. Nothing, this statement compiles and executes.
- C. The value of 10 must be defined before this statement can be executed.
- D. The num variable must be defined before this statement can be executed

**Section** 2.1 Variables

**Title** What is wrong with this assignment statement?

type mc

**from** testbank-py-1-ch02-05

section 2.1 Variables

id testbank-py-2-ch02-05

13. What is wrong with the following code snippet?

num = 78A

- A. The num variable is never assigned a value
- B. 78A is not a valid value in a Python program
- C. The name num is not a valid variable name
- D. The num variable is never initialized

**Section** 2.1 Variables

**Title** What is wrong with the following code snippet?

type me

**from** testbank-py-1-ch02-07

section 2.1 Variables

id testbank-py-2-ch02-07

14. Which line of code creates a variable named x and initializes it to the integer 5?

A. x = 5.0 B. x = 5 C. x = '5' D. x = "5"

**Section** 2.1.2 Number Types

**Title** Which line of code creates a variable named x and initializes it to the integer 5?

type mo

fromtestbank-py-1-ch02-15section2.1.2 Number Typesidtestbank-py-2-ch02-15

15. Which of the following items is an example of a floating-point literal?

A. 100000

B. 100,000 C. 100000.0 D. 100,000.0

**Section** 2.1.2 Number Types

**Title** Which of the following items is an example of a floating-point literal?

type me

section 2.1.2 Number Types id testbank-py-2-ch02-97

16. Which of the following names is **not** a legal variable name?

A. bottle-volume

B. cans per pack

C. four D. x2

**Section** 2.1.3 Variable Names

**Title** Which of the following names is not a legal variable name?

type mc

section 2.1.3 Variable Names id testbank-py-1-ch02-16

- 17. Which of the following statements about variable names is **not** correct?
  - A. Variable names are case sensitive.
  - B. Variable names can begin with a letter, an underscore or a number.
  - C. Variable names cannot be reserved words such as if and class.
  - D. Variable names cannot contain symbols such as ? and %.

**Section** 2.1.3 Variable Names

**Title** Which statement about variable names is not correct?

type mc

section 2.1.3 Variable Names id testbank-py-2-ch02-98

- 18. Which of the following names is the best for a constant variable holding the price of a can of soda?
  - A. soda price
  - B. soda-price
  - C. SodaPrice
  - D. SODA PRICE

**Section** 2.1.4 Constants

Title Which of the following names is the best for a constant variable holding the price of a can

of soda?

type mo

section 2.1.4 Constants testbank-py-1-ch02-17

- 19. What convention is normally used when naming constants in a Python program?
  - A. Constant names are normally written in all capital letters.
  - B. Constant names normally begin with a # character.
  - C. Constant names normally begin and end with an underscore.
  - D. Constant names normally begin with a capital letter followed only by numbers.

Section 2.1.4 Constants

**Title** What convention is normally used when naming constants in a Python program?

type mc

section 2.1.4 Constants testbank-py-2-ch02-99

- 20. What symbol is used to begin a comment in a Python program?
  - A. !
  - B. @
  - C. #
  - D. \$

**Section** 2.1.5 Comments

**Title** What symbol is used to begin a comment in a python program?

type mc

section 2.1.5 Comments testbank-py-1-ch02-18

- 21. A numeric constant that appears in your code without explanation is known as a:
  - A. floating-point number
  - B. magic number
  - C. string
  - D. variable

**Section** 2.1.5 Comments

**Title** What name is given to a numeric constant that appears in your code without explanation?

type mc

section 2.1.5 Comments testbank-py-2-ch02-100

- 22. Which of the following statements correctly multiplies num1 times num2?
  - A. num1 \* num2
  - B. num1 x num2
  - C. num1 · num2
  - D. num1 \*\* num2

**Section** 2.2 Arithmetic

**Title** Which of the following statements correctly multiplies num1 times num2?

type me

section 2.2 Arithmetic testbank-py-1-ch02-19

- 23. What is the value of result after the following code snippet?
  - num1 = 10

```
num3 = 2
result = num1 / num2 / num3
print(result)

A. 1
B. 0
C. The code has an error
D. 0.25

Section
Title
What is the value of result after the following code snippet?
type
section
id
type J. 2.2 Arithmetic
type J. 2.2 Arithmetic
type J. 2.2 Arithmetic
type J. 2.2 Arithmetic
testbank-py-1-ch02-22
```

24. What will be the values of the variables num1 and num2 after the given set of assignments?

```
num1 = 20
num2 = 10
num1 = num1 + num2 / 2
num2 = num1
   A. num1 = 20.0, num2 = 10.0
   B. num1 = 15.0, num2 = 10.0
   C. num1 = 25.0, num2 = 25.0
   D. num1 = 15.0, num2 = 15.0
  Section
                             2.2 Arithmetic
                             What will be the values of the variables num1 and num2 after the given set of assignments?
  Title
  type
  section
                             2.2 Arithmetic
                             testbank-py-1-ch02-23
```

25. What is the value of result after the following code snippet?

```
num2 = 20
num3 = 2
result = num1 // num2 // num3
print(result)
   A. 1
   B.0
   C. The code has an error
   D. 0.25
  Section
  Title
                              What is the value of result after the following code snippet?
  type
                              mc
                              2.2 Arithmetic
  section
                              testbank-py-1-ch02-24
  id
```

26. What is the value of result after the following code snippet?

```
num1 = 20
num2 = 10
num3 = 2
result = num1 // num2 // num3
print(result)
```

num1 = 10

A. 1

B. 0

C. The code has an error

D. 0.25

**Section** 2.2 Arithmetic

**Title** What is the value of result after the following code snippet?

type mc

section 2.2 Arithmetic testbank-py-1-ch02-25

27. What is the value of result after the following code snippet?

```
num1 = 20
num2 = 10
num3 = 2
result = num1 // num2 / num3
print(result)
```

A. 1.0

B. 0.0

C. The code has an error

D. 0.25

**Section** 2.2 Arithmetic

**Title** What is the value of result after the following code snippet?

type mc

section 2.2 Arithmetic testbank-py-1-ch02-26

28. Which code snippet is the correct Python equivalent to the following Algebraic expression?

```
c = \sqrt{(a^2 + b^2)}
```

C. sqrt(a \* 2 + b \* 2)

D. squareroot(a \*\* 2 + b \*\* 2)

**Section** 2.2 Arithmetic

**Title** What is the value of result after the following code snippet?

type mc

section 2.2 Arithmetic testbank-py-1-ch02-28

29. What symbol is used to find remainder of a floor division?

A. //

B. /

C. %

D. #

**Section** 2.2 Arithmetic

**Title** What symbol is used to find remainder of a floor division?

type mc

section 2.2 Arithmetic testbank-py-1-ch02-29

30. A(n) is a collection of programming instructions that carry out a particular

task. A. argument B. parameter C. function D. literal Section 2.2 Arithmetic Title What is a collection of programming instructions that carry out a particular task? type section 2.2 Arithmetic testbank-py-1-ch02-30 31. What is the value of 4 \*\* 3? A. 12 B. 64 C. 1 D. Nothing, there is an error in the statement Section 2.2 Arithmetic What is the value of 4 \*\* 3? Title type section 2.2 Arithmetic testbank-py-1-ch02-31 32. What is returned by the function: round(x) if x = 5.64? A. Nothing, there is an error in the statement B. 5 C. 5.6 D. 6 Section 2.2 Arithmetic Title What is returned by the function: round(x)if x = 5.64? type section 2.2 Arithmetic testbank-py-1-ch02-32 33. What is returned by the function: abs(x) if x = 5.64? A. Nothing, there is an error in the statement B. 5 C. 5.64 D. 6 Section 2.2 Arithmetic

Title What is returned by the function: abs(x)if x = 5.64?

type

section 2.2 Arithmetic testbank-py-1-ch02-33 id

34. What is returned by the function: max(1, 4, 15, 2, 3, 24)?

A. 1 B. 24

C. 15

D. 2

**Section** 2.2 Arithmetic

**Title** What is returned by the max function?

type mc

section 2.2 Arithmetic testbank-py-1-ch02-34

- 35. What is returned by the function: round(3.14159, 2)?
  - A. 3
  - B. 3.14159
  - C.3.2
  - D. 3.14

**Section** 2.2 Arithmetic

**Title** What is returned by the function: round(3.14159, 2)?

type mo

section 2.2 Arithmetic testbank-py-1-ch02-35

- 36. What must be done first before you can use a function from the standard library?
  - A. the function must be defined
  - B. the function must be imported
  - C. the function must be included in a module
  - D. the function must be enclosed in parenthesis

**Section** 2.2 Arithmetic

**Title** What must be done first before you can use a function from the standard library?

type mc

section 2.2 Arithmetic

id testbank-py-1-ch02-38

- 37. What is returned by the function: sqrt(64)?
  - A. 8.0
  - B. 32.0
  - C. 4.0
  - D. 64.0

**Section** 2.2 Arithmetic

**Title** What is returned by the sqrt function?

type m

section 2.2 Arithmetic testbank-py-1-ch02-39

38. What is wrong with the following code snippet?

```
((num1 + num2) * num3 / 2 * (1 - num4)
```

- A. nothing, the code compiles and runs
- B. there is an extra parenthesis
- C. parenthesis are not required
- D. illegal expression

**Section** 2.2 Arithmetic

**Title** What is wrong with the following code snippet?

type mc

section 2.2 Arithmetic

id testbank-py-1-ch02-40

39. Which of the following statements correctly calculates the average of three numbers: num1, num2, and num3?

```
A. num1 + num2 + num3 / 3
B. num1 + num2 + num3 % 3
C. ( num1 + num2 + num3 ) / 3
D. ( num1 + num2 + num3 / 3 )

Section
2.2 Arithmetic
Which of the following statements computes the average of three numbers? type
from testbank-py-1-ch02-20
section 2.2 Arithmetic
id testbank-py-2-ch02-20
```

- 40. Which of the following suggestions is the best way to make code easier for other programmers to understand?
  - A. Use more statements in the source code.
  - B. Give each variable a name that explains its purpose.
  - C. Avoid using complex calculations in the source code
  - D. Use single-letter variable names in the source code

**Section** 2.2 Arithmetic

**Title** What is the best way to make code easier for other programmers to understand?

type n

from testbank-py-1-ch02-21
section 2.2 Arithmetic
id testbank-py-2-ch02-21

41. Assume that you have an integer variable, pennies, that currently contains an integer number of pennies. Which statement determines the number of dollars and cents for that number of pennies?

```
A. dollars = pennies // 100
    cents = pennies % 100
 B. dollars = pennies / 100
    cents = pennies % 100
 C. dollars = pennies // 100
    cents = pennies / 100
 D. dollars = pennies % 100
    cents = pennies / 100
Section
                          2.2 Arithmetic
                          Which statement determines the number of dollars and cents for a number of pennies?
Title
type
                          testbank-py-1-ch02-27
from
section
                          2.2 Arithmetic
                          testbank-py-2-ch02-27
id
```

42. What is wrong with the following code snippet?

```
result = num1 // num2 / num3
num1 = 20
num2 = 10
num3 = 2
print(result)
```

- A. A variable is used before it is assigned a value.
- B. Nothing, the code compiles and runs.
- C. The // symbol cannot be used in a Python program.
- D. One or more of the variable names is not valid.

**Section** 2.2 Arithmetic

**Title** What is wrong with the following code snippets which includes variables?

type mc

from testbank-py-1-ch02-36 section 2.2 Arithmetic

id testbank-py-2-ch02-36

- 43. A(n) \_\_\_\_\_ is a collection of code that has been written by someone else that is ready for you to use in your program.
  - A. variable
  - B. argument
  - C. function
  - D. library

**Section** 2.2 Arithmetic

**Title** What is a collection of code that has been written and translated by someone else.

type mc

from testbank-py-1-ch02-37 section 2.2 Arithmetic

id testbank-py-2-ch02-37

44. Consider the following code segment:

```
x = 5

y = 7

z = x - y * 2
```

After this code segment executes, the value of z is:

- A. -9
- B. -4
- C. 5
- D. 7

**Section** 2.2.1 Basic Arithmetic Operations

**Title** Evaluate expressions involving basic arithmetic operations

type mc

section 2.2.1 Basic Arithmetic Operations

id testbank-py-1-ch02-41

45. The Python code that represents the formula  $c = (a / b)^3$  is:

A. c = a / b \*\* 3 B. c = (a / b) \*\* 3 C. c = 3 ^ (a / b) D. c = (a / b) ^ 3

**Section** 2.2.2 Powers

Title Translate a formula to equivalent Python code

type mc section 2.2.2 Powers

id testbank-py-1-ch02-42

46. Consider the following code segment:

```
x = 5
y = 3
z = 2
result = x // y + x % z
```

After this code segment, the value of result is:

A. 2 B. 3 C. 4

D. 5

**Section** 2.2.3 Floor Division and Remainder

Title Evaluate an expression involving division and remainder

type mc

section 2.2.3 Floor Division and Remainder

id testbank-py-1-ch02-43

47. Which function call will cause Python to report an error?

A. abs(1, 2)B. max(1, 2)C. min(1, 2)D. round(1, 2)

**Section** 2.2.4 Calling Functions

**Title** Which function call will cause Python to report an error?

type mc

section 2.2.4 Calling Functions id testbank-py-2-ch02-101

48. Which statement computes the square root of 5 and stores it in the variable, r? Assume that the math module has already been imported.

A. r = math.squareRoot(5)
B. r = math.sqrt(5)
C. r = math.squareRoot[5]
D. r = math.sqrt[5]

**Section** 2.2.5 Mathematical Functions

**Title** Which statement computes the square root of 5?

type mc

section 2.2.5 Mathematical Functions id testbank-py-1-ch02-44

49. Which of the following statements computes the minimum of the variables a, b, c and d, and stores it in x?

```
A. \ x = minimum(a, b, c, d) B. \ x = min(a, b, c, min(d)) C. \ x = min(min(a, b), min(c, d)) D. \ min(a, b, c, d) = x
```

**Section** 2.2.5 Mathematical Functions

**Title** Which statement computes the minimum value of four

type mc

**section** 2.2.5 Mathematical Functions

variables?

id testbank-py-1-ch02-45

50. What is the value of length after this statement: length = len("Good Morning")?

A. 10

B. 11

C. 12

D. 13

**Section** 2.4 Strings

**Title** What is the value of length after this statement: length = len("Good Morning")?

type mc section 2.4 Strings

id testbank-py-1-ch02-47

51. Which statement correctly creates a new variable by combining the two string variables: firstName and lastName?

```
A. name = "firstName" + "lastName"
B. name = firstName + lastName
C. name = first name + last name
D. name = firstName & lastName
```

Section 2.4 Strings

Title Which statement correctly creates a new variable by combining the strings firstName and

lastName?

type mc section 2.4

section 2.4 Strings id testbank-py-1-ch02-49

••

52. What is printed from the following code snippet:

```
message = "ho.."
print(message * 3)
   A. ho..ho..ho
   B. ho..
   C. ho..ho..ho..
```

D. nothing is printed, this code snippet causes an error

**Section** 2.4 Strings

**Title** What is printed from the given snippet?

type mc section 2.4 Strings

id testbank-py-1-ch02-50

53. What is printed by the following code snippet:

```
street = " Main Street"
address = 123 + street
print(address)
```

A. 123Main Street

B. 123 Main Street

C. 123 "Main Street"

D. nothing is printed, this code snippet causes an error

**Section** 2.4 Strings

**Title** What is printed from the given snippet?

type mc section 2.4 Strings

id testbank-py-1-ch02-51

54. The following code snippet has an error, how can this be corrected so it prints: 123 Main Street?

```
    street = "Main Street"
    address = 123 + street
    print(address)
    A. change the value '123' in line 2 to a string using the str function
    B. reverse lines 1 and 2
    C. change line 1 to read: street = 123 + "Main Street"
    D. change line 2 to read: address = 123 + "Main Street"
    Section
    2.4 Strings
    Title What has to change to correctly print a street number and street name?
    type mc
    section
    2.4 Strings
```

testbank-py-1-ch02-52

55. What is printed by the following code snippet?

```
num = int("45") * float("1.5")
print(num)

A. nothing, this causes an error
B. 46.5
C. 45 * 1.5
D. 67.5

Section
Title
What is printed by the following code snippet?
type
section
id
testbank-py-1-ch02-54
```

56. What is the index value of the letter 'h' in the string below?

```
message = "hello"

A. 1
B. 0
C. 3
D. 4

Section
Title
What is the index value of the letter 'h' in the string below?
type
section
id

2.4 Strings
Title
type
section
2.4 Strings
testbank-py-1-ch02-55
```

57. Given the code snippet below, what code is needed to print the person's initials?

```
firstName = "Pamela"
middleName = "Rose"
lastName = "Smith"

A. print(firstName[1], middleName[1], lastName[1])
B. print(firstName[0], middleName[0], lastName[0])
C. print(firstName + middleName + lastName)
D. print(firstName, middleName, lastName)
```

**Section** 2.4 Strings

**Title** Given the code snippet below, what code is needed to print the person's initials?

type mc

section 2.4 Strings

id testbank-py-1-ch02-56

58. Which statement finds the last letter of the string variable name?

A. last = name[len(name)]

B. last = len(name) - 1

C. last = len(name)

D. last = name[len(name) - 1]

**Section** 2.4 Strings

**Title** Which statement finds the last letter of the string variable name?

type mc section 2.4 Strings

id testbank-py-1-ch02-58

59. A \_\_\_\_\_\_ is a collection of programming instructions that can be appllied to

an object.

- A. function
- B. method
- C. class
- D. object

**Section** 2.4 Strings

**Title** Which is the name of a collection of programming instructions that carry out a particular

task to control the behavior of an object? **type**mc

section 2.4 Strings

id testbank-py-1-ch02-59

60. A sequence of characters is referred to as a:

A. string

B. module

C. variable

D. expression

**Section** 2.4 Strings

**Title** What is a sequence of characters?

type mc

**from** testbank-py-1-ch02-46

section 2.4 Strings

id testbank-py-2-ch02-46

61. What is it called when you join two strings together in Python?

A. concatenation

B. addition

C. repetition

D. conversion

**Section** 2.4 Strings

**Title** What is it called when you join two strings together in Python?

type mc

from testbank-py-1-ch02-48

section 2.4 Strings

62. What functions can be used to convert a string into a number?

```
A. stri and len
B. int and float
C. sqrt, abs and round
D. integer and float
```

Section 2.4 Strings

**Title** What functions are used to convert strings to numbers?

type mc

from testbank-py-1-ch02-53

section 2.4 Strings

id testbank-py-2-ch02-53

63. What output is generated by the following code snippet?

```
firstName = "Pamela"
middleName = "Rose"
lastName = "Smith"
print(firstName[0], middleName[0], lastName[5])
```

A. nothing, this causes an index of bounds error

B. PRh
C. P R h
D. PRS

**Section** 2.4 Strings

**Title** Given the code snippet below, what code is printed?

type mo

**from** testbank-py-1-ch02-57

section 2.4 Strings

id testbank-py-2-ch02-57

64. What is printed by the following code snippet?

```
name = "Robert"
formalName = name.upper()
print(formalName)
```

A. Robert

B. robert

C. ROBERT

D. formalName

**Section** 2.4 Strings

**Title** Which is the result of the following code snippet?

type mc

from testbank-py-1-ch02-60

section 2.4 Strings

id testbank-py-2-ch02-60

65. What is printed by the following code snippet?

```
name = "Robert"
formalName = name.lower()
print(formalName)
```

A. Robert

```
B. robert
```

- C. ROBERT
- D. formalName

**Section** 2.4 Strings

**Title** Which is the result of the following code snippet?

type mc

from testbank-py-1-ch02-61

section 2.4 Strings

id testbank-py-2-ch02-61

66. What is printed by the following code snippet?

```
name = "today is thursday"
name.replace("t", "T")
name.replace("i", "I")
print(name)

A. today is thursday
```

B. Today is Thursday
C. Today Is Thursday
D. Today Is thursday

**Section** 2.4 Strings

**Title** Which is the result of the following code snippet?

type mc

from testbank-py-1-ch02-62

section 2.4 Strings

id testbank-py-2-ch02-62

67. What is printed by the following code snippet?

```
name = "today is thursday"
newName = name.replace("t", "T")
print(newName)
```

A. today is thursday B. Today is Thursday C. Today Is Thursday D. Today Is thursday

**Section** 2.4 Strings

**Title** Which is the result of the following code snippet?

type mc

from testbank-py-1-ch02-63

section 2.4 Strings

id testbank-py-2-ch02-63

68. What is the value of x after the following code segment?

```
x = len("Hello World!")
```

A. 10

B. 11

C. 12

D. 13

Section

2.4.1 The String Type

**Title** Determine the length of a string

type mc

section 2.4.1 The String Type testbank-py-1-ch02-64

69. Assume that s is an arbitrary string containing at least 2 characters. What is displayed by the following code segment?

```
print(s[0], s[len(s) - 1])
```

- A. The first character of s, followed immediately by the second last character of s.
- B. The first character of s, followed immediately by the last character of s.
- C. The first character of s, followed by a space, followed by the second last character of s.
- D. The first character of s, followed by a space, followed by the last character of s.

**Section** 2.4.1 The String Type

**Title** Display specific characters from a string

type mc

section 2.4.1 The String Type testbank-py-1-ch02-65

70. Which of the following symbols can be used to begin a string literal in Python?

A. \*

B. #

C. "

D. >

**Section** 2.4.1 The String Type

**Title** Which of the following symbols can be used to begin a string literal in Python?

type mo

section 2.4.1 The String Type testbank-py-2-ch02-13

71. What is the value of words after the following code segment?

```
words = "Hello" + "World" * 3
```

A. "HelloWorldWorldWorld"

B. "Hello World World World"

C. "HelloWorldHelloWorldHelloWorld"

D. "Hello World Hello World Hello World"

Section2.4.2 Concatenation and RepetitionTitleString Concatenation and Repetition

type mo

section 2.4.2 Concatenation and Repetition

id testbank-py-1-ch02-66

72. Which of the following statements causes Python to report an error?

```
A. x = 17 + 18.4
B. x = 17 + "18.4"
C. x = 17 + int(18.4)
D. x = 17 + float("18.4")
```

Section 2.4.3 Converting Between Numbers and Strings

Title Working with Numbers and Strings

type mc

section 2.4.3 Converting Between Numbers and Strings testbank-py-1-ch02-67

73. What letter is displayed by the following code segment?

```
title = "Python for Everyone"
print(title[3])

A. e
B. h
C. o
D. t

Section
Title
Identify a character within a string type
section
id
2.4.4 Strings and Characters
testbank-py-1-ch02-68
```

74. Consider the following code segment:

```
product = "Cookies"
product = product.lower()
```

After this code segment executes, the value of the product variable is:

A. "cookies"
B. "cOOKIES"
C. "Cookies"
D. "COOKIES"

**Section** 2.4.5 String Methods

Title Trace code that invokes the lower method on a string

type mc

section 2.4.5 String Methods id testbank-py-1-ch02-69

75. Consider the following code segment:

```
title = "Python for Everyone"
newTitle = title.replace("e", "*")
```

After this code runs, the value stored in newTitle is:

A. "Python for \*veryone"
B. "Python for Ev\*ryone"
C. "Python for Ev\*ryon\*"
D. "Python for \*v\*ryon\*"

**Section** 2.4.5 String Methods

Title Trace code that invokes the replace method on a string

type mc

section 2.4.5 String Methods id testbank-py-1-ch02-70

76. What is displayed by the following code segment?

```
print("\"Hello World!\"")
```

```
A. Hello World!
B. "Hello World!"
```

 $C. \Text{"Hello World!}$ 

D. The program reports an error

**Section** 2.4.5 String Methods

**Title** Trace code that includes escape sequences

type mc

section 2.4.5 String Methods id testbank-py-1-ch02-71

77. Which statement causes A and B to be printed on different lines?

```
A. print("AB")
B. print("A,B")
C. print("A\nB")
D. print("A", "B")
```

**Section** 2.4.5 String Methods

**Title** Which statement causes A and B to be printed on different lines?

type mc

section 2.4.5 String Methods testbank-py-2-ch02-102

78. Which statement correctly saves the price in the variable cost?

```
userInput = input("Please enter the price:")
```

```
A. cost = float(userInput)
B. cost = userInput
C. cost = int(userInput)
```

D. cost = int(userInput)
D. cost = float[userInput]

Section 2.5 Input and Output

**Title** Which statement correctly saves the price in the variable cost?

type mc

section2.5 Input and Outputidtestbank-py-1-ch02-75

79. Which statement correctly saves the number of items in the variable quantity?

```
userInput = input("Please enter the quantity:")
```

```
A. quantity = float(userInput)
B. quantity = userInput
```

C. quantity = int(userInput)
D. quantity = int[userInput]

Section 2.5 Input and Output

**Title** Which statement correctly saves the price in the variable quantity?

type mc

section 2.5 Input and Output testbank-py-1-ch02-76

80. What is printed by the following code snippet?

```
cost = 25.45378
print("%.2f" % cost)
```

```
B. %25.45
```

C. 25.45

D. nothing, there is an error

Section 2.5 Input and Output

**Title** Which is printed by the following code snippet?

type mc

section2.5 Input and Outputidtestbank-py-1-ch02-77

# 81. Which output format string correctly allows for 5 positions before and two digits after the decimal point?

A. "%8.2f"

B. "%5.2f"

C. "%7.2f"

D. "%5d.2f"

Section 2.5 Input and Output

**Title** Which output format string correctly allows for 5 positions before and two digits after the

decimal point?

type mc

section 2.5 Input and Output testbank-py-1-ch02-78

# 82. Which output format correctly prints an item description left justified with up to 10 letters?

A. "%10"

B. "%10s"

C. "%-10s"

D. "-%10s"

Section 2.5 Input and Output

**Title** Which output format correctly prints an item description left justified with up to 10 letters?

type m

section2.5 Input and Outputidtestbank-py-1-ch02-79

# 83. What is the output for the following code snippet:

```
area = 25
print("The area is %05d" % area)
```

A. The area is 25

B. nothing, there is an error in the code snippet

C. The area is 00025 D. The area is 25

**Section** 2.5 Input and Output

**Title** What is the output for the following code snippet?

type m

section 2.5 Input and Output testbank-py-1-ch02-80

#### 84. What function is used to read a value from the keyboard?

A. input

B. print

C. keyboard

D. next

Section 2.5 Input and Output

**Title** What function is used to read input from the keyboard?

type mc

fromtestbank-py-1-ch02-72section2.5 Input and Outputidtestbank-py-2-ch02-72

- 85. The message used to tell the user what input is expected is known as a(n):
  - A. input
  - B. keyword
  - C. comment
  - D. prompt

Section 2.5 Input and Output

**Title** The message used to tell the user what input is expected is known as a(n):

type mc

from testbank-py-1-ch02-73
section 2.5 Input and Output
id testbank-py-2-ch02-73

- 86. What is the data type of the value returned by the input function?
  - A. integer
  - B. string
  - C. float
  - D. character

Section 2.5 Input and Output

**Title** What is the data type of the value returned by the input function?

type mo

from testbank-py-1-ch02-74
section 2.5 Input and Output
id testbank-py-2-ch02-74

87. Consider the following code segment:

```
a = input("Enter the value of a: ")
b = input("Enter the value of b: ")
print(a + b)
```

When this code segment is run the user enters 1 at the first prompt and 5 at the second prompt. The output displayed is:

A. 1

B. 6

C. 15

D. 1 + 5

Section 2.5.1 User Input

Title Trace code that reads two values from the user

type mc

section 2.5.1 User Input testbank-py-1-ch02-81

88. The line of code which reads a value from the user and stores it in a variable named x as a floating-point value is:

```
A. x = float()

B. x = input("Enter the value of x: ")
```

```
C. x = float(input("Enter the value of x: "))
D. x = input(float())
```

Section 2.5.2 Numerical Input

Title Read numerical input from the user

type mo

section2.5.2 Numerical Inputidtestbank-py-1-ch02-82

89. The line of code that displays the floating point number stored in the variable x using 3 decimal places is:

```
A. print("%.3f", x)
B. print("%.3f" % x)
C. print("%3.f", x)
D. print("%3.f" % x)
```

**Section** 2.5.3 Formatted Output

Title Format output to 3 decimal places

type mc

section 2.5.3 Formatted Output id testbank-py-1-ch02-83

90. What output is generated by the following code segment?

```
a = 10.0
b = 0.50
print("The total is %.2f and the tax is %.2f." % (a, b))
   A. The total is .00 and the tax is .50
   B. The total is 10.0 and the tax is 0.5
   C. The total is 10.0 and the tax is 0.50
   D. The total is 10.00 and the tax is 0.50
  Section
                            2.5.3 Formatted Output
  Title
                            Format multiple values in a single output statement
  type
                            2.5.3 Formatted Output
  section
  id
                            testbank-py-1-ch02-84
```

91. Consider the following code segment:

```
x = 12
print("%d%%" % x)
```

The output generated by this code segment is:

A. 12 B. %12 C. 12% D. 12%%

Section 2.5.3 Formatted Output Title Format integer output

type mc

section 2.5.3 Formatted Output testbank-py-1-ch02-85

92. A graphics application shows information inside a

```
B. window
```

C. form

D. page

**Section** 2.6 Graphics: Simple Drawings

Title A graphics application shows information inside a

type mc

section 2.6 Graphics: Simple Drawings

id testbank-py-1-ch02-86

# 93. Which statement draws a square on the canvas?

```
A. canvas.drawRect(0, 50, 0, 50) 
B. canvas.drawRect(50, 50, 0, 0) 
C. canvas.drawRect(0, 0, 50, 100) 
D. canvas.drawRect(0, 0, 50, 50)
```

**Section** 2.6 Graphics: Simple Drawings

**Title** Which statement draws a square on the canvas?

type mc

section 2.6 Graphics: Simple Drawings id testbank-py-1-ch02-87

## 94. Which statement sets the fill color when drawing shapes on the canvas?

```
A. canvas.setOutline("black")
B. canvas.setFill("black")
C. canvas.fill("black")
D. canvas.fillRect("black")
```

**Section** 2.6 Graphics: Simple Drawings **Title** Which statement fills a shape?

**type** mc

section 2.6 Graphics: Simple Drawings id testbank-py-1-ch02-88

## 95. Which statement writes the word Hello on the canvas?

```
A. canvas.setString(10, 10, "Hello")
B. canvas.setText(10, 10, "Hello")
C. canvas.drawText(10, 10, "Hello")
D. canvas.drawString(10, 10, "Hello")
```

**Section** 2.6 Graphics: Simple Drawings

**Title** Which statement writes test to the canvas?

type mc

section 2.6 Graphics: Simple Drawings

id testbank-py-1-ch02-89

#### 96. Which of the given print statements generates the following output?

## ABCDE"\

```
A. print("ABCDE\"\\")
B. print("ABCDE"\")
C. print("ABCDE"\)
D. print("ABCDE\"\")
```

**Section** 2.6 Graphics: Simple Drawings

**Title** Which print statement generates output with quote and backslash?

type me

section 2.6 Graphics: Simple Drawings

id testbank-py-1-ch02-90

97. Which statement imports the entire contents of the sympy module?

A. from sympy import \*
B. import contents
C. import \* from sympy
D. sympy import

Section 2.6 Graphics: Simple Drawings

**Title** Which statement imports the entire contents of the sympy module?

type me

section 2.6 Graphics: Simple Drawings id testbank-py-2-ch02-94

98. Which statement creates an expression in SymPy form?

A. f = x \*\* 2 B. f = sympify("x \*\* 2") C. f = sympy(x \*\* 2) D. sympy("f = x \*\* 2")

**Section** 2.6 Graphics: Simple Drawings

**Title** Which statement creates an expression in SymPy form?

type mo

section 2.6 Graphics: Simple Drawings id testbank-py-2-ch02-95

99. Which SymPy function is used to display a graph of a mathematical function?

A. diff B. draw C. plot D. subs

**Section** 2.6 Graphics: Simple Drawings

**Title** Which SymPy function is used to display a graph of a mathematical function?

type mc

section 2.6 Graphics: Simple Drawings

id testbank-py-2-ch02-96

# 100. Consider the following code segment:

```
from graphics import GraphicsWindow
```

```
win = GraphicsWindow(400, 200)
canvas = win.canvas()
```

The line of code that should be added to the end of the code segment above to draw a diagonal line connecting the upper left corner to the lower right corner is:

A. canvas.drawLine(0, 0, 0, 0)
B. canvas.drawLine(0, 0, 200, 400)
C. canvas.drawLine(200, 400, 400, 200)
D. canvas.drawLine(400, 200, 0, 0)

Section 2.6.2 Lines and Polygons
Title Draw a diagonal line on a canvas

type mc

section 2.6.2 Lines and Polygons id testbank-py-1-ch02-91

#### 101. The statement that sets the fill color to red is:

```
A. canvas.setFill(0, 128, 0)
```

```
B. canvas.setFill(64, 0, 128) C. canvas.setFill(64, 255, 64) D. canvas.setFill(128, 0, 0)
```

**Section** 2.6.3 Filled Shapes and Color

**Title** Which statement sets the fill color to red?

type mc

section 2.6.3 Filled Shapes and Color testbank-py-1-ch02-92

# 102. Which of the following statements draws a circle?

A. canvas.drawOval(100, 200, 100, 200) B. canvas.drawOval(200, 100, 200, 200) C. canvas.drawOval(200, 200, 100, 200) D. canvas.drawOval(200, 200, 200, 100)

Section 2.6.4 Ovals, Circles and Text
Title Which statement draws a circle?

type mc

section 2.6.4 Ovals, Circles, and Text testbank-py-1-ch02-93