

Question 1
Correct
Mark 2.00 out of 2.00
Flag question



Refer to the exhibit. What does the exhibited flow chart symbol represent?

Select one:

- ☐ preparation
- ☐ data
- ☐ display
- ☒ process



Refer to curriculum topic: 2.1.1

The rectangular symbol represents "Process" in a flow chart.

The correct answer is: process

Question 2
Correct
Mark 2.00 out of 2.00
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What are two resources that could help someone learn to program? (Choose two.)

Select one or more:

- ☐ Maker Media
- ☒ Khan Academy
- ☒ Code Academy
- ☐ Kickstarter
- ☐ Quirky



Refer to curriculum topic: 2.2.2

There are many resources that help with learning to program. Some resources include the following: Code Academy, Khan Academy, Blockly,

Question **3**

Correct

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question

Which platform is a low cost, credit-card-sized computer?

Select one:

- ☐ Arduino
- ☒ Raspberry Pi
- ☐ PL-App
- ☐ Blockly



Refer to curriculum topic: 2.2.2

The Raspberry Pi is a low cost, credit-card-sized computer that is programmed using Python. The Arduino is an open-source low power physical computing platform used to control devices. The PL-App provides a web-based environment used to access the Raspberry Pi. Blockly is a visual programming tool for beginners.

The correct answer is: Raspberry Pi

Question **4**

Correct

Mark 2.00 out of
2.00

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question

What is displayed after the following code is entered into a Python interpreter?

```
addition = 22 + 10  
print(addition)
```

Select one:

- ☐ nothing (because the print command is wrong)
- ☒ 32
- ☐ [22]+[10]
- ☐ (syntaxerror)-...as there should not be a space between the numerical values



Refer to curriculum topic: 2.1.3

The Python interpreter will perform the operation and display the result, 32.

Question 5

Correct

Mark 2.00 out of 2.00

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What is Blockly?

Select one:

- ☐ a network simulation program
- ☒ a programming tool for beginners
- ☐ a low-cost credit-card-sized computer
- ☐ a non-profit educational website



Refer to curriculum topic: 2.1.2

No prior programming knowledge or code is needed to start programming with Blockly.

The correct answer is: a programming tool for beginners

Question 6

Correct

Mark 2.00 out of 2.00

Flag question

Which output would be displayed if the code that is shown below is entered in a Python interpreter?

```
y = ['yellow', 'red', 'green', 'purple', 'white']  
print y
```

Select one:

- ☐ 'yellow', 'red', 'green', 'purple', 'white'
- ☐ y
- ☒ It shows "SyntaxError"
- ☐ yellow, red, green, purple, white



Refer to curriculum topic: 2.1.3

A syntax error would be printed because the variable to be printed has to be in parenthesis (y).

The correct answer is: It shows "SyntaxError"

Question 7

Correct

Mark 2.00 out of 2.00

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How is a new variable created in Blockly?

Select one:

- ☒ Drag the variable block onto the work space area. ✓
- ☐ Determine the type of variable needed, then scroll to the appropriate place in the code to insert the variable.
- ☐ Declare the variable in a Dim statement.
- ☐ Use the assignment operator

Refer to curriculum topic: 2.1.2

In Blockly, a variable is created by dragging the variable block onto the work space area and filling in the value slot.

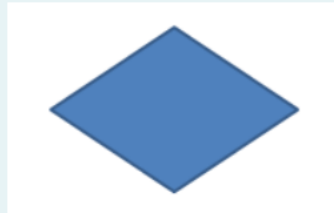
The correct answer is: Drag the variable block onto the work space area.

Question 8

Correct

Mark 2.00 out of 2.00

Flag question



Refer to the exhibit. What does the exhibited flow chart symbol commonly represent?

Select one:

- ☐ termination
- ☐ data
- ☒ decision ✓
- ☐ connector

Question **9**

Correct

Mark 2.00 out of 2.00

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What is one way to pay for prototyping?

Select one:

- ☐ mortgage
- ☐ easy pay
- ☒ crowd funding
- ☐ incorporate



Refer to curriculum topic: 2.2.1

Crowd funding is a way to generate money where a small amount of money is contributed by multiple people. A corporation may be formed if a prototype works. A mortgage is used to fund a home.

The correct answer is: crowd funding

Question **10**

Correct

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Which Python programming function is used to display output?

Select one:

- ☒ print
- ☐ if
- ☐ for
- ☐ while



Refer to curriculum topic: 2.1.3

Print is used to display output in a Python programming language interpreter.

The correct answer is: print

Question **9**

Correct

Mark 2.00 out of 2.00

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What is one way to pay for prototyping?

Select one:

- ☐ mortgage
- ☐ easy pay
- ☒ crowd funding
- ☐ incorporate



Refer to curriculum topic: 2.2.1

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Question **10**

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Which Python programming function is used to display output?

Select one:

- ☒ print
- ☐ if
- ☐ for
- ☐ while



Refer to curriculum topic: 2.1.3

Print is used to display output in a Python programming language interpreter.

The correct answer is: print

Question 11

Correct


Mark 2.00 out of 2.00

Flag question

What output is expected when the function that is shown below is entered in a Python program interpreter?

```
>>>print Cisco 1
```

Select one:

- ☒ "SyntaxError: Missing parentheses in call to 'print'" 
- ☐ Cisco1
- ☐ Cisco 1
- ☐ cisco 1

Refer to curriculum topic: 2.1.3

It will display "SyntaxError:Missng parenthesis in call to "Print"" and futhermore the name 'cisco 1' is not defined.

The correct answer is: "SyntaxError: Missing parentheses in call to 'print'"

Question 12


Correct

Mark 2.00 out of 2.00

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What is used to illustrate how a given process will run?

Select one:

- ☒ flow chart 
- ☐ graph
- ☐ Packet Tracer
- ☐ pie chart

Refer to curriculum topic: 2.1.1

A flow chart is used in programming to illustrate how a given process will run.

The correct answer is: flow chart

Question 13

Correct

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A student has a digitized version of an idea for a product. What machine can the student use to turn the idea into a solid object?

Select one:

- ☐ Packet Tracer
- ☒ 3D printer
- ☐ Arduino
- ☐ Beaglebone
- ☐ Raspberry Pi



Refer to curriculum topic: 2.2.2

A 3D printer has the capability of producing a solid object. There are also low technology options, such as LEGO Mindstorms, that may work for creating a physical rendition of a prototype. Arduino, Beaglebone, and Raspberry Pi are computing platforms. Packet Tracer is a networking simulation tool.

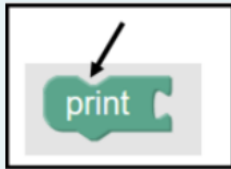
The correct answer is: 3D printer

Question 14

Correct

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Refer to the exhibit. A specific Blockly block has a slot on the top. What is the purpose of this slot?

Select one:

- ☐ The block is a variable.
- ☐ A block with a printer name is required to be attached above the block shown.
- ☐ This block is the topmost block.
- ☒ The slot allows a block with a bevel tab on the bottom to be connected above the block shown.



Refer to curriculum topic: 2.1.2

Question **15**

Correct

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question

What is the output when the following code is entered into a Python program interpreter?

```
[1,2,4,5] + [3,6]
```

Select one:

- ☐ [21]
- ☐ [1,2,3,4,5,6]
- ☐ [12]+[9]
- ☒ [1,2,4,5,3,6]



Refer to curriculum topic: 2.1.3

The Python interpreter performs concatenation of two lists without reordering the list elements

The correct answer is: [1,2,4,5,3,6]