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Go to next item

1. What is a computer program? 1 / 1 point

- (●) Step-by-step instructions on how to complete a set of tasks, to be executed by a computer.
- ( ) The overview of what the computer will have to do to solve an automation problem.
- ( ) A file that gets printed by the Python interpreter.
- ( ) The syntax and semantics of a programming language.

Correct

2. Which of the following are true about programming languages? Select all that apply. 1 / 1 point

- [x] Similar to human language, programming languages use syntax and semantics.

Correct

- [x] Programming languages are used to write computer programs and scripts.

Correct

- [ ] Programming languages is a synonym for pseudocode.
- [x] Some common programming languages include Python, Java, C, C++, C#, and R.

Correct

3. What are some of the benefits of automation? Select all that apply. 1 / 1 point

- [ ] More cost-effective for complex, seldom-done tasks
- [x] Consistency

Correct

- [ ] Can accomplish creative tasks
- [x] Doesn't get tired

Correct

4. What is the term for the set of rules for how statements are constructed in a programming language? 1 / 1 point

- ( ) Format
- ( ) Semantics

Semantics

Grammar

Syntax

Correct

5. Which of the following are characteristics of the Python language? Select all that apply. **1 / 1 point**

- [x] Python is cross-platform compatible

Correct

- [x] Python is used in a wide variety of applications

Correct

- [ ] Python has many platform-specific tools, like Bash or Powershell
- [ ] Python is an object-oriented language not fit for general purpose scripting

6. Complete the code so that the string "I am writing Python code!" will print to the screen. Remember that syntax precision is important in programming languages. A missing capital letter, spelling error, or punctuation mark can produce errors. **1 / 1 point**

```
1  # Replace the blanks with the correct code and syntax:
2  print("I am writing Python code!")
3
4  # Should print: I am writing Python code!
```

Run

Reset

```
I am writing Python code!
```

Correct

Correct.

7. What should be the output of the expression below? **1 / 1 point**

```
1  print(2+2/((2+2)+(2**2)))
```

- 12.0
- 50.0
- 2.25
- 5.0

Correct

8. Keeping in mind there are 60 seconds per minute, write a program that calculates how many seconds there are in an hour. Print **1 / 1 point**

8. Keeping in mind there are 60 seconds per minute, write a program that calculates how many seconds there are in an hour. Print the result to the screen. Note: Your result should be in the format of just a number, not a sentence. 1 / 1 point

```
# Enter code here:
minutes_per_hour = 60
seconds_per_minute = 60

total_seconds = minutes_per_hour * seconds_per_minute
print(total_seconds)

# Should print 3600
```

Run

Reset

```
3600
```

Correct

Correct.

9. The market is six miles away from your home. The school is two miles away from your home. Use Python to calculate how much further the market is from your home than the school (in miles). Note: Your result should be in the format of a number, not a sentence. 1 / 1 point

```
# Should print 4
distance_to_market_from_home = 6
distance_to_school_from_home = 2
distance_from_school_to_market = distance_to_market_from_home - distance_to_school_from_home
print(distance_from_school_to_market)
```

Run

Reset

```
4
```

Correct

Correct.

10. Consider this scenario about using Python to make calculations: 1 / 1 point

On a college campus, there are 30 computers in each of the 20 computer labs that are spread across campus. The computers have a life cycle where they are replaced every five years. One-fifth of the computers are replaced each year.

Fill in the blank to calculate the number of computers that are replaced each year by dividing the total computers by the replacement cycle. Note: Your result should be a number.

```
total_computers = 30*20
replacement_cycle = 5
computers_per_year = total_computers/replacement_cycle

print(computers_per_year) # Should print 120.0
```

Run

Reset

```
120.0
```

Correct

Correct.