



## 98-380<sup>Q&As</sup>

Introduction to Programming Using Block-Based Languages (Touch Develop)

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**QUESTION 1**

You are working on an app for Humongous Insurance in which teenage drivers can take a practice driver's license exam. The user of the app can take the exam multiple times. A passing score is a minimum of 70% of items correct. The app

will output the test scores and whether the score was a passing score. It will also average the attempts and output whether the average was passing.

You create the functions defined in the following table. The program uses only local variables.

Function name	Process	Return values
AddScore	Adds the new score value to the cumulative scores.	Numeric value. Returns the total cumulative scores.
CalculateAverage	Calculates the average of the cumulative scores.	Numeric value. Returns the average of the cumulative scores.
InputScore	Verifies that the user entered a numeric value between 0 and 100.	Numeric value. Returns the number entered by the user or -1 if the input is not numeric or not between 0 and 100.

You need to identify the parameters required for each function. To answer, drag the appropriate parameter from the column on the left to the function on the right. Each answer may be used once, more than once, or not at all.

Select and Place:

**Parameters**

Total, NewScore

Total, NumberOfScores

NewScore

Total

None

**Answer Area**

AddScore

CalculateAverage

InputScore

Correct Answer:

**Parameters**

Total
None

**Answer Area**

Total, NewScore
Total, NumberOfScores
NewScore

**QUESTION 2**

Your coding team is creating a weather app. The application must allow the user to input a wind speed and see if the storm is a hurricane. If the storm is a hurricane, the app should also determine which category of storm it is on the Saffir-Simpson Hurricane Wind Scale.

The Saffir-Simpson Hurricane Wind Scale is defined as follows:

Category 1 is 74-95 MPH Category 2 is 96-110 MPH Category 3 is 111 to 129MPH Category 4 is 130-156 MPH  
Category 5 is 157 MPH and above

Four team members have proposed pseudocode to meet this requirement.

Which pseudocode is in the appropriate logical order?

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: D

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**QUESTION 3**

You are creating a new educational computer game. The game will randomly present an arithmetic problem to the user, ask the user to answer the arithmetic problem, and then check the user's answer. Which data structure should you use to store the arithmetic problems?

- A. Object



- B. Variable
- C. Array or collection
- D. Function

Correct Answer: A

References:

[https://certiport.pearsonvue.com/Certifications/Microsoft/MTA/Certify/MTA\\_OD\\_380\\_Intro\\_to\\_Programming\\_Block-Based\\_Extern.pdf](https://certiport.pearsonvue.com/Certifications/Microsoft/MTA/Certify/MTA_OD_380_Intro_to_Programming_Block-Based_Extern.pdf)

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#### QUESTION 4

You are hired by a taxing authority to create an algorithm for calculating income tax. The income tax system is a progressive tax system.

Any income at \$10,000 or below should be taxed at 10 percent. Any income greater than \$10,000 but less than \$50,000 should be taxed at 20 percent. Any income at \$50,000 or greater should be taxed at 30 percent. An example of how the system works is shown in the following table.

Income	Taxed at 10%	Taxed at 20%	Taxed at 30%
\$10,000	\$10,000	0	0
\$50,000	\$10,000	\$40,000	0
\$51,000	\$10,000	\$40,000	\$1,000

How should you complete the pseudocode? To answer, select the appropriate pseudocode segments in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:



## Answer Area

IF Income  THEN

TAX =

ELSE IF income  THEN

TAX =

ELSE

TAX =

END IF



Correct Answer:



## Answer Area

IF Income  THEN

> 50000
<=10000

TAX =

30 * Income
10 * Income
0.30 * Income
0.10 * Income

ELSE IF income  THEN

> 10000
<= 50000

TAX =

20 * Income
0.20 * Income
1000 + 0.20 * (Income - 10000)

ELSE

TAX =

30 * Income
0.10 * Income
0.30 * Income
9000 + 0.30 * (Income - 50000)

END IF



**QUESTION 5**

You are building a treasure hunt game.

When the player opens a treasure box, a random prize might be awarded with the following probabilities:

Gold Prize 2%

Silver Prize 5%

Bronze Prize 20%

You are designing an algorithm to decide the prize using the random function. The random(limit) function returns a random integer between 1 and limit, including limit. For example, if the limit is 20, the function returns a value between 1 and

20.

Hot Area:

```
Answer Area

SET value TO random(100)

IF value < 0.02 THEN
    RETURN "Gold"
ELSE IF value < 5 THEN
    RETURN "Silver"
ELSE IF value < 0.2 THEN
    RETURN "Bronze"
ELSE
    RETURN "Empty"
END IF
```

Correct Answer:





Answer Area

```
SET value TO random(100)

IF value < 0.02 THEN
    RETURN "Gold"
ELSE IF value < 5 THEN
    RETURN "Silver"
ELSE IF value < 0.2 THEN
    RETURN "Bronze"
ELSE
    RETURN "Empty"
END IF
```

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