



Term 1 Exam

Soufriere Primary School Grade 6

Section A: Select the correct definition.

1. Function

- A** A way to customize your new phone.
- B** A machine learning model.
- C** A module of code that performs a specific task.

2. Parameter

- A** Instructions that tell a computer how to do a task.
- B** Finding and fixing mistakes in your code.
- C** A list of instructions that tells a computer what to do.

3. JavaScript

- A** The name of a computer coding language.
- B** A character in coding.
- C** An error in your code.

4. Event Handler

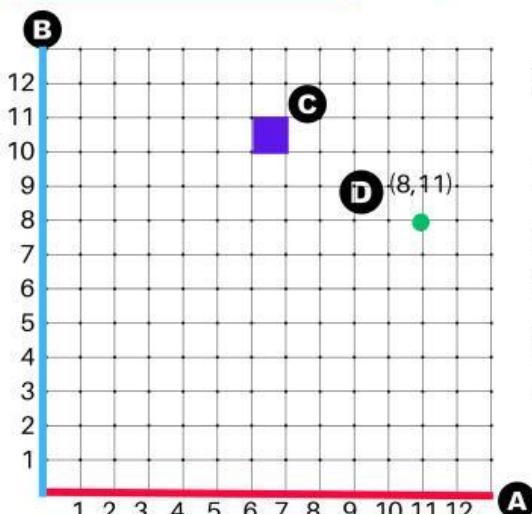
- A** An action that is triggered by another action
- B** Finding and fixing errors in your code.
- C** A way to make your code shorter.

5. Event

- A** An error in your code.
- B** A command that makes a computer repeat an action.
- C** An action that triggers another action.

6. Variable

- A** A way to make your code more concise.
- B** A value in a program that can change.
- C** A machine learning model.



Section B: Which term is shown on the graph?

Put the letter next to the correct term.

7. Coordinates _____
8. X-Axis _____
9. Pixel _____
10. Y-Axis _____



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Section C: Read the algorithms. Solve the puzzles.

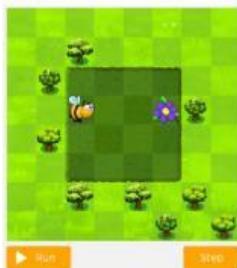
These magic purple flowers change!

Conditionals

Each time you try the puzzle, purple flowers can have either 1 nectar or none at all...but you won't know the number until you run the code!

Be careful not to collect nectar from a purple flower if it doesn't have any. You must first check if the nectar is equal to 1 using the if nectar block.

11. Select the correct command for the conditional statement in this algorithm.



```
when run
repeat (3) times
  do [move forward v]
  if [nectar v] = [1]
    do [ ]
```

- A make honey
- B get nectar
- C move forward

12. Which algorithm will make the bee collect all the nectar from both flowers if they have any?



- A
- B
- C
- D

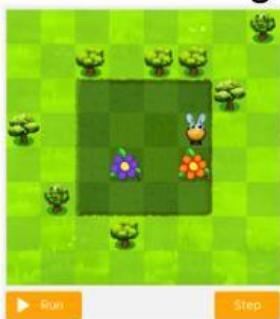
```
when run
  move forward
  turn [left v]
  move forward
  if [nectar v] > [1]
    do [get nectar]
  move forward
  if [nectar v] > [1]
    do [get nectar]
```

```
when run
  move forward
  if [nectar v] = [1]
    do [get nectar]
  move forward
  if [nectar v] = [1]
    do [get nectar]
```

```
when run
  move forward
  if [nectar v] = [1]
    do [get nectar]
  turn [right v]
  move forward
  turn [left v]
  move forward
  if [nectar v] = [1]
    do [get nectar]
```

```
when run
  turn [right v]
  move forward
  turn [left v]
  move forward
  move forward
  if [nectar v] = [1]
    do [get nectar]
```

13. Which of these algorithms correctly solves the puzzle below?



- A
- B
- C
- D

```
when run
  move forward
  repeat (4) times
    do [get nectar]
    turn [right v]
    move forward
    move forward
    if [nectar v] > [1]
      do [make honey]
```

```
when run
  move forward
  if [nectar v] = [1]
    do [get nectar]
  turn [right v]
  move forward
  move forward
  if [nectar v] > [1]
    do [get nectar]
```

```
when run
  move forward
  repeat (4) times
    do [get nectar]
    turn [right v]
    move forward
    move forward
    if [nectar v] > [1]
      do [get nectar]
```

```
when run
  move forward
  if [nectar v] = [1]
    do [make honey]
  turn [right v]
  move forward
  move forward
  if [nectar v] > [1]
    do [make honey]
```

14. What does the code say after the two "move forward" commands?



```
when run
  move forward
  move forward
  if [at flower v]
    do [get nectar]
  else
    do [make honey]
```

- A If it's a honeycomb, make honey or else get nectar.
- B If it's a flower, get nectar, or else make honey
- C First get nectar, then make flower.

Select the word that correctly completes the sentence below.

15. Conditional statements help computers to make _____.

guesses

decisions

repetitions

friends

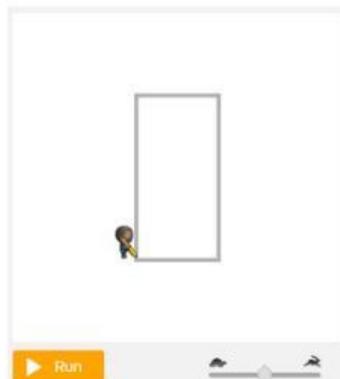


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Variables

Read the algorithm below. Answer the questions.



```

when run
set width to 100
repeat (2) [
  move forward by (width) pixels
  turn left by (90) degrees
  move forward by (width * 2) pixels
  turn left by (90) degrees
]

```

17. What value is stored in the variable? A 100 B 2 C 90

Functions

Read the algorithm below. Answer the questions.

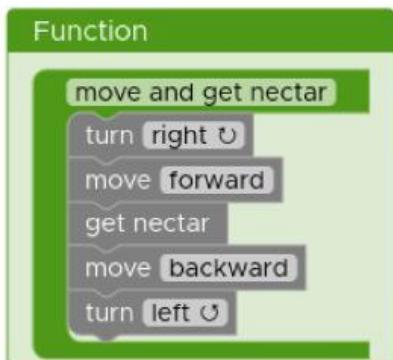
18. Which of these commands calls the function?

A get nectar **B** make honey
C move forward **D** move and get nectar

```

when run
repeat (2) [
  move forward
  move and get nectar
  move forward
  move forward
  move and get nectar
]

```



19. How many times is the function called? -----

Java Script

20. Which of these phrases is correctly written in Camel Case?

A weLoveOurSchool **B** WELOVEourschool
C WeLoveOurSchool **D** We Love Our School

When you click finish:

What do you want to do?



Enter your full name: *

Group/level: *

School subject: *

Enter your teacher's email or key code: *