**Introduction to Digital Technology**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Question 1**

What is an algorithm?

1. Computer code that runs on phone or PC
2. A math formula, like x = y+1
3. A general set of instructions, like a recipe
4. Python, Java, and SNAP are examples

**Question 2**

Which best describes a computer bug?

1. When a program produces an expected error, like when user is asked to input a number, but types in a letter, and it says “invalid.”
2. When a program does not behave as expected because the programmer made incorrect assumptions.
3. When the program shuts down because the laptop battery gets too low.

**Unit 1 - SNAP Basics - Quiz**

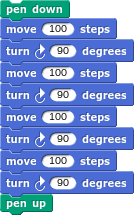
**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Question 3**

What is a sprite in SNAP?

1. An object on the stage that the code can manipulate (move, show, say)
2. A block of code that performs a specific function
3. Another word for costume, an image that can be imported and shown.

**Question 4**

 Which shape does the below code draw?

1. Pentagon
2. Square   
    (same length sides)
3. Circle
4. Star
5. Rectangle   
    (different length sides)

**Question 4**

Which block allows a sprite to alert another sprite of an event?

1. Say
2. Broadcast
3. Touching
4. Costumes

**Question 5**

Let’s program the start of a knock-knock joke. Using broadcast and when I receive blocks, which is the correct way to program the first 2 lines?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| A | |  |  | | --- | --- | | Sprite 1 | Sprite 2 | | r-UV3MqlGKSykLV4c92ohLz-XTnJaT68iXKXIAbn  jbPRFZBkagpFEXPTMMlBQVHmEKshRVJCIRJm_YPE | k7FE_RYU7wPJqF9TWQjPNmaDE4ACBgNkjtloRE8t | |
| B | |  |  | | --- | --- | | Sprite 1 | Sprite 2 | | IW_a_p_s8g4XmrCwj4DFPrHzoynoiZASjpYtAhkp | Doe72LI8cf3tt69djJ8QgGcSeAwJziqRwNLtaNkm | |
| C | |  |  | | --- | --- | | Sprite 1 | Sprite 2 | | 2kwzsmcTzkpKHU6IkTXQtHJr6y6FlcPiqfOP1lNR  F_q02hnX_udUp1yJoXg91XEGVUHHEUjAwRiqCYUv | HGpxbho4BlQFSgLsW4pG6dwzeR3bwF4GFFIp09DI | |
| D | |  |  | | --- | --- | | Sprite 1 | Sprite 2 | | 2kwzsmcTzkpKHU6IkTXQtHJr6y6FlcPiqfOP1lNR  jbPRFZBkagpFEXPTMMlBQVHmEKshRVJCIRJm_YPE | k7FE_RYU7wPJqF9TWQjPNmaDE4ACBgNkjtloRE8t | |