**CS108L Computer Science for All**

**Module 5 Do Now Questions**

1. What is the outcome of running the following code:

to setup

 ask patches [
 if (random 100) < 10 [ set pcolor red]

 if (random 100) < 10 [ set pcolor green]

 if (random 100) < 10 [ set pcolor blue]

 ]

end

1. All the patches will be either red, green, or blue.
2. An equal number of patches will be red, green, and blue.
3. There will be more blue patches than red patches.
4. There will be more red patches than any other color patches.
5. After this procedure, what distribution of patches do you expect to see?

to setup

 clear-all

 ask patches

 [

 let roll (random 100)

 ifelse roll < 10

 [ set pcolor red]

 [

 ifelse roll < 20

 [ set pcolor green]

 [

 if roll < 30 [ set pcolor blue]

 ]

 ]

 ]

end

1. All the patches will be either red, green, or blue.
2. There will be roughly an equal number of patches will be red, green, and blue.
3. There will be more blue patches than red patches.
4. There will be more red patches than any other color patches.
5. What is the result of evaluating this expression?

(blue = red) OR (3 + 1 = 4)

1. true
2. blue
3. 4
4. false
5. What is the result of evaluating this expression?

(true) AND (false) OR (NOT (false))

1. false
2. it depends on if the statement is true or false
3. does not compute
4. always true.
5. After this procedure, what distribution of patches do you expect to see?

to setup

clear-all

ask patches

 [

 let roll (random 100)
 ifelse roll < 50

 [ set pcolor red]

 [

 if (roll) < 25

 [ set pcolor green]

 ]

 ]

end

1. Roughly 1/4 of all the patches should be green;
2. Roughly 1/4 of all the patches should be red and ¼ green;
3. Roughly 1/2 of all the patches should be green;
4. Roughly 1/2 of all of the patches should be red;