Mission 7 - Line Sensors Review Questions

Which of the following is NOT used in a line	a. Emitter
sensor reading?	b. Detector
	c. Constant
	d. Reflector
A line sensor reading returns higher values	a. More
when light is reflected.	b. Less c. Consistent
	d. Variable
	a. Variable
What value is returned by the line sensor	a. 0 or 1
reading?	b. True or Falsec. An integer between 0 and 100
	d. An integer between 0 and 4095
What and a unada the line annua?	
What code reads the line sensor?	a. left = ls.read(1)b. left.ls_read()
	c. left[1] = ls.read()
	d. ls.read[1, 2]
What will print, given this code:	a. 56
left = 5	b. 5,6,
right = 6	c. 5,6
	d. Causes an error
<pre>print(left, right, sep=',')</pre>	
What does the if statement evaluate to?	a. Invalid comparison
number = 15	b. 15
if 10 < number < 20:	c. True
11 10 C Humber C 20.	d. False
What is the purpose of the break statement?	a. Stops the program
	b. Exits to the operating system
	c. Moves to the next part of an if statement
	d. Breaks out of the nearest loop
Where is the best place to define a constant?	a. Near the top, under the imports
	b. After the functions
	c. Just before the while True: statement d. Just after the while True: statement
What is the value of x?	a5 b. 5
x = abs(10-15)	b. 5 c. 25
	d25
What is the correct code for getting input from	a. input("Enter direction")
the user?	b. dir = input("Enter direction")
	c. dir.input("Enter direction")
	d. dir = console.input("Enter direction")
Given the code, what is the value of number?	a. 4
	b. 8
	c. 3 d. 7
	u. /

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matrix = [
     [1, 2, 3, 4],
     [5, 6, 7, 8],
     [9, 0, 1, 2]
number = matrix[1, 3]
What is the purpose of the return statement?
                                                 a. Exits the loop
                                                 b. Assigns the value of the line sensor
                                                 c. Exits a function and returns a value, if one is given
                                                 d. Returns a value but remains in a function
What is the correct code for calling a function
                                                 a. get_name()
with a return?
                                                 b. def get_name():
                                                 c. call get_name()
                                                 d. the_name = get_name()
What does this code do?
                                                 a. Searches the matrix and returns 'W'
                                                 b. Searches the matrix and returns 2481
 sensor data = [
                                                 c. Searches the matrix and returns 3
     ['N', 3557],
                                                 d. Fails to find any match in the matrix
     ['E', 286],
     ['S', 1391],
     ['W', 2481]
left = 2481
def find_name(left):
     for d in sensor data:
         if abs(left - d[1]) < MIN_DIFF:</pre>
              return d[0]
What is printed by the code:
                                                 a. ONE
                                                 b. TWO
 x = 5
                                                 c. THREE
y = 12
                                                 d. ONE and then THREE
 if 10 < x < 20:
      if y > 10:
            print("ONE")
       else:
            print("TWO")
 else:
       print("THREE")
```