

1.

Fill in the blank: A **while** loop instructs your computer to continuously execute your code based on the value of a _____.

1/1 point

☐

function

☐

comparator

☐

data type

☒

condition

☒

Correct

A **while** loop instructs your computer to continuously execute your code based on the value of a condition. The loop will keep iterating as long as the condition remains true.

2.

A data professional wants to set up a **while** loop that will iterate as long as the variable **x** is less than 7. They assign the value 0 to the variable **x**. What code should they write next?

1/1 point

☐

loop x < 7:

☒

while x < 7:

☐

iterate x < 7:

☐

repeat x < 7:

☒

Correct

The code **while x < 7:** sets a condition for a **while** loop stating that the variable **x** must be less than 7. The code begins with the distinguishing keyword **while**. And, like functions and other expressions that start a distinct code block, it ends with a colon. The while loop will iterate until the condition is false.

3.

In Python, the keyword **break** lets you escape a loop without triggering any **else** statement that follows it in the loop.

1/1 point

☒

True

☐

False



Correct

In Python, the keyword `break` lets you escape a loop without triggering any `else` statement that follows it in the loop.