

TO PASS 80% or higher

Practice Quiz: For Loops

TOTAL POINTS 5

1.	How are while loops and for loops different in Python?	1/1 point
	While loops can be used with all data types, for loops can only be used with numbers.	
	O For loops can be nested, but while loops can't.	
	While loops iterate while a condition is true, for loops iterate through a sequence of elements.	
	While loops can be interrupted using break, for loops using continue.	
	Correct You got it! We can use while loops when we want our code to execute repeatedly while a condition is true, and for loops when we want to execute a block of code for each element of a sequence.	
	 Fill in the blanks to make the factorial function return the factorial of n. Then, print the first 10 factorials (from 0 to 9) with the corresponding number. Remember that the factorial of a number is defined as the product of an integer and all integers before it. For example, the factorial of five (5!) is equal to 1*2*3*4*5=120. Also recall that the factorial of zero (0!) is equal to 1. 	1/1 point
	result = 1 result = 1 result = result*x result = result*x return result for n in range(0,10): print(n, factorial(n)) Reset	
	✓ Correct	

3. Write a script that prints the first 10 cube numbers (x**3), starting with x=1 and ending with x=10.

Great work! The pieces of code you're tackling keep getting

more complex, you're doing a great job!

1 ▼ for x in range(1,11):
2 print(x**3)

Run

Reset

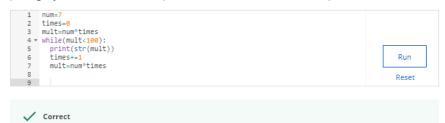
✓ Correct

You nailed it! You got the code to print the first 10 cubes.

1/1 point

4. Write a script that prints the multiples of 7 between 0 and 100. Print one multiple per line and avoid printing any numbers that aren't multiples of 7. Remember that 0 is also a multiple of 7.





 The retry function tries to execute an operation that might fail, it retries the operation for a number of attempts. Currently the code will keep executing the function even if it succeeds. Fill in the blank so the code stops trying after the operation succeeded.

Awesome! You're getting Python to do all the work for you.

1/1 point

✓ Correct

Well done, you! You've fixed the code to stop executing once the function is successful.