Practice Quiz: Conditionals

TOT	AL POINTS S	
1.	What's the value of this Python expression: (2**2) == 4? 4 2**2 True False Correct You nailed it! The conditional operator == checks if two values are equal. The result of that operation is a boolean: either True or False.	1 / 1 point
2.	Complete the script by filling in the missing parts. The function receives a name, then returns a greeting based on whether or not that name is "Taylor". 1	1/1 point
3.	<pre>What's the output of this code if number equals 10? 1 if number > 11: 2 print(0) 3 elif number != 10: 4 print(1) 5 elif number >= 20 or number < 12: 6 print(2) 7 else: 8 print(3)</pre>	1/1 point
	Correct Right on! Our number is 10, which is smaller than 12, so it matches that condition.	
4.	Is "A dog" smaller or larger than "A mouse"? Is 9999+8888 smaller or larger than 100*100? Replace the plus sign in the following code to let Python check it for you and then answer. 1	1/1 point

O "A dog" is smaller than "A mouse" and 9999+8888 is smaller than 100*100

✓ Correct

 If a filesystem has a block size of 4096 bytes, this means that a file comprised of only one byte will still use 4096 bytes of storage. A file made up of 4097 bytes will use 4096*2-8192 bytes of storage. Knowing this, can you fill in the gaps in the calculate_storage function below, which calculates the total number of bytes needed to store a file of a given size? 1 / 1 point

```
def calculate_storage(filesize):
   block_size = 4096
   # Use floor division to calculate how many blocks are fully occupied
                full_blocks = filesize // block_size
#print('fb', full_blocks)
                # Use the modulo operator to check whether there's any remainder
                partial_block_remainder = filesize % block_size
#print('pb', partial_block_remainder)
# Depending on whether there's a remainder or not, return
 8
10
                # the total number of bytes required to allocate enough blocks
               # to store your data.
if partial_block_remainder > 0:
    return block_size * (full_blocks + 1)
return block_size * (full_blocks)
11
12
13
14
15
16
        print(calculate_storage(1))
                                                            # Should be 4096
        print(calculate_storage(4096)) # Should be 4096
print(calculate_storage(4097)) # Should be 8192
print(calculate_storage(6000)) # Should be 8192
17
                                                                                                                                 Run
18
                                                                                                                                Reset
19
```

