Name:	Section:	1	2

1 = Mutchler, 2^{nd} – 3^{rd} periods. **2** = Mutchler, 4^{th} – 5^{th} periods.

Use this quiz to help make sure you understand the videos/reading. **Answer all questions.** Make additional notes as desired. **Not sure of an answer?** Ask your instructor to explain in class and revise as needed then. Please print two-sided if practical.

Throughout, where you are asked to "circle your choice", you can circle or underline it (whichever you prefer).

Textbook Reading: Section 6.2 – List Operations (pages 284 – 290)

1. When the code snippet below is executed, what gets printed?

```
numbers = [5, 9, 2]
numbers.append(3)
print('Appended:', numbers)
numbers.insert(2, 1)
print('Inserted:', numbers)
popped = numbers.pop(3)
print('Popped:', popped, numbers)
numbers.remove(9)
print ('Removed', numbers)
```

```
Output (fill in the blanks):
Appended: _____
Inserted:
Popped: ____
Removed:
```

- 2. If a and b are lists such that a + b == b + a, is it necessarily true that **a** == **b**? Yes No (circle your choice)
- 3. Suppose that *numbers* is a non-empty list of numbers. Write a *single* expression (NOT an explicit loop!) that computes the average of the numbers in the list.

<u>Textbook Reading</u>: Section 6.3 - Common List Algorithms (pages 290-297)

4. Suppose that x and y are two variables. Write statements that swap their values. For example, if **x** is **2** and **y** is **8**, then after your statements, **x** should be **8** and **y** should be **2**.

Textbook Reading: Section 6.4 – Using Lists with Functions (pages 297-303

5. Write the complete definition (including the header line) of a function fill that fills an existing list with a given value (i.e., replaces the current value in each list position).
For example, fill (scores, 10) should replace each element of the list scores by the number 10.

If the list **scores** initially contains the numbers 1, 4, and 9 (in that order), what does **scores** contain after the call **reverse(scores)**? (*Hint*: careful, this is a little tricky!)

7. List a few operations that you can do with a list that you cannot do with a tuple.