

Name(s) _____ Period _____ Date _____

[KEY] Extra Practice - ArrayLists**Check for Understanding**

Which of the following correctly returns the total number of elements in the `ArrayList` `population`?

- A. `population.length();`
- B. `population.total();`
- C. `population.size();`**
- D. `size(population);`
- E. `length(population);`

AP Exam Prep

`nums` is an `ArrayList` initialized with the values `[3, 5, 7]`. What is stored in the list `nums` after the following code segment is run?

```
nums.add(5);  
nums.add(2, 4);
```

`[3, 5, 4, 7, 5]`

Extra Practice

Do This: The food truck usually bakes orders in the order they were received. However, if an order has more than 10 items, it is moved to the front of the list. For example, if the food truck receives orders for 3, 5, 12, and 6 items, they should be stored and returned as follows:

[12, 3, 5, 6]

Write a program which accepts a set of orders from a user, then outputs the orders in the sequence they should be baked.

```
import java.util.*;

public class MyClass {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        ArrayList<Integer> nums = new ArrayList<Integer>();

        System.out.print("Please enter the first order quantity.");
        int input = scan.nextInt();

        while (input > 0){
            if (input > 9){
                nums.add(0, input);
            }
            else {
                nums.add(input);
            }

            System.out.println("Please enter the next order quantity.");
            System.out.print("If there are no more orders, enter -1.");
            input = scan.nextInt();
        }

        System.out.print("The orders requested are: " + nums);
    }
}
```