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| **APCS Exposure Java** | **Exercises 16.01-06** | **Date:** |
| **Name:** | | **Period:** |

01. Is **String** a simple/primitive data type? If not, what is it?

02. All Java classes start with \_\_\_\_\_\_\_ letters.

03. What is a string?

04. What kind of characters can be in a string?

05. What is a *string literal*?

06. Write five different program segments that will store **"Skiing"** in a **String** object.

07. What does the **length** method do?

08. *Java static arrays* also use **length**.

While both *lengths* are similar in function what difference do they have?

09. Which **ArrayList** method is similar to **length**?

10. In C++ a **String** is an *array of characters*. Is this true in Java?

For questions 11 through 21 assume the following declaration exists:

**String qqq = "Haleakala";**

And determine the output of the given programming statement.

11. **System.out.println(qqq.substring(0,3));**

12. **System.out.println(qqq.substring(2,6));**

13. **System.out.println(qqq.substring(5,8));**

14. **System.out.println(qqq.substring(5,9));**

15. **System.out.println(qqq.substring(5));**

16. **System.out.println(qqq.substring(0));**

17. **System.out.println(qqq.substring(8));**

18. **System.out.println(qqq.indexOf("leak"));**

19. **System.out.println(qqq.indexOf("al"));**

20. **System.out.println(qqq.indexOf("Haleakala"));**

21. **System.out.println(qqq.indexOf("Molokini"));**

22. Which static method coverts simple data types to **String** objects?

23. Refer to the previous question. Why is this method called a **static** method?

24. Which method converts a **String** into an **int**?

25. Which method converts a **String** into a **double**?

26. Why does the == operator not work for comparing **String** objects?

27. Refer to the previous question.

What should be used instead of the == operator when comparing **String**s?

28. Explain method **compareTo**.

29. Which string related methods are tested on the APCS Exam?