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| **APCS Exposure Java** | **Exercises 02.03-06** | **Date:** |
| **Name:** | | **Period:** |

1. Explain why the United Nations “2-step translation” process requires fewer translators than a

“1-step translation” process.

2. When is a programming language considered to be *platform independent*?

3. What type of code is created by a Java compiler?

4. What is *bytecode*?

5. If you were to compare the executing of a Java file with the UN, how would “bytecode” fit in with the UN analogy?

6. Does the computer understand *bytecode*?

7. What does Java use an *interpreter* for?

8. What does *JVM* stand for?

9. Which program is larger, a *compiler* or an *interpreter*?

10. Java uses a \_\_\_\_\_\_\_ to translate the program source code created by the programmer into \_\_\_\_\_\_\_.

11. Refer to the previous question. Java then continues and uses an \_\_\_\_\_\_\_ to translate the \_\_\_\_\_\_\_ into executable \_\_\_\_\_\_\_ line by line.

12. What is the name for the interpreter that takes the bytecode and then executes the program?

13. List 2 benefits with using Java on a web page?

14. What does HTML stand for?

15. What is an applet?

16. What is an application?

17. Can a website contain multiple applets?

18. Can a website be written entirely in Java?

19. What does JDK stand for?

20. What company created Java in 1995?

21. Refer to your answer to the previous question.

What company bought that company in 2009?

22. Refer to your answer to the previous question.

How much does it cost to download Java from this company?

23. What 3 things do you need to write a Java program?

24. Refer to the previous question. Some software packages combine all 3 of these things into an IDE.

What does IDE stand for?

25. Can *Notepad* be used to write a Java program?

26. All Java programs end with what suffix?

27. Can the Java compiler be accessed from the *Command Prompt*?

28. All bytecode files end with what suffix?

29-31. What are the 3 steps of a Java program? (This counts as 3 questions.)

32. What does JRE stand for?

33. To make JCreator function on your computer, you must install both JCreator and the JDK.

Which must be installed first?

34. In the textbook, the JDK file name is **jdk-7u3-windows-i586.exe**.

If you download the JDK today, you might notice the file name is a little different.

What would this indicate?