

## Unit 03\_010 — printf

1. What format code does Printf use for each of the following data types?

- integers
- real numbers
- Strings
- characters

2. Does the printf method automatically include a newline character?

3. Assume there are variables `length` and `width` and a double variable named `area`. Write the full `System.out.printf()` statement that prints the following statement. Fill in the blanks with the length, width, and area. Make sure you include a newline.

A rectangle with a length of \_\_\_\_ and a width of \_\_\_\_ has an area of \_\_\_\_.

## Unit 03\_020 Characters and Strings

4. In Java, is a `char` the same as a `String`? Explain the difference.

5. In Java, what is the difference between single quotes and double quotes? Is `'B'` and `"B"` the same?

6. Is `'\n'` one characters or two?

7. What are "ASCII Codes?"

8. What are the ASCII codes less than 32 called?

9.     • `' '` (space) \_\_\_\_\_

- '0' (zero) \_\_\_\_\_
- '@' \_\_\_\_\_
- 'A' \_\_\_\_\_
- 'a' \_\_\_\_\_
- ' ' (tilde) \_\_\_\_\_

10. What is the biggest problem with ASCII codes?
11. How many bits does extended ASCII use?
12. Does Java use ASCII or Unicode to represent character data?
13. How many bits does Java use to represent type char?
14. Is ASCII built into Unicode, or did Unicode start from scratch?
15. Do you have any other questions?