

## Java 111 Chapter 10 (from version 1)

Total Questions: 9

Most Correct Answers: #1

Least Correct Answers: #5

1. The keyword "static" lets a method run without any instance of the class.

9/15 ☒ A True

0/15 ☐ B False

2. A static method is not dependent on any instance variable.

6/15 ☒ A True

2/15 ☐ B True, only if the method is really a constructor

0/15 ☐ C False

3. If a class has a static method, that class should never be instantiated.

1/15 ☐ A True

6/15 ☒ B False

4. Static methods CAN use instance variables, it's just not a good idea.

2/15 ☐ A True

5/15 ☒ B False

5. Which of the following are true?

4/15 ☒ A Static methods can't use non-static methods.

5/15 ☒ B If a class has a static variable, all instances of that class share a single copy of the static variable.

0/15 ☐ C All static variables in a class are initialized after any object of that class is created.

6/15 ☒ D The keyword "final" means "the value can't be changed"

4/15 ☒ E The keyword "final" can be used with variables, classes and methods.

6. To use the Math class, the first step is to make an instance of it.

1/15 ☐ A True

5/15 ☒ B False

7. Static final variables are also known as:

- 0/15 ☐ A Booleans
- 1/15 ☐ B Primitives
- 0/15 ☐ C Illegal vars
- 5/15 ☒ D Constants

8. Which of the following are true?

- 5/15 ☒ A The naming convention for constants (final static variables) is to make the name all uppercase.
- 5/15 ☒ B A static method can access a static variable.
- 5/15 ☒ C A final class cannot be extended (subclassed).
- 6/15 ☒ D Static methods are often utility methods.
- 0/15 ☐ E A final method can be overridden.

9. What is the output of the following: `String.format("I have %,.2f bugs to fix." 476578.09876);`

- 0/15 ☐ A I have 476578.10 bugs to fix.
- 0/15 ☐ B I have 476578.09876 bugs to fix.
- 1/15 ☐ C I have %,.2f bugs to fix.
- 3/15 ☒ D I have 476,578.10 bugs to fix.
- 2/15 ☐ E I have 476,578.09 bugs to fix.