# JAVA SELF-TEST QUESTIONS – CHAPTER 1 – GETTING STARTED

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| **Question 1** | If the following statement were used in a Java program, it would cause something to be written to the screen. What would it cause to be written to the screen?  System.out.println("Java is not a drink."); |
| **Answer** |  |

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| **Question 2** | Give a statement or statements that can be used in a Java program to write the following to the screen:  I like Java.  You like tea. |
| **Answer** |  |

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| **Question 3** | Write a complete Java program that uses System.out.println to output the following to the screen when run:  Hello World! |
| **Answer** |  |

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| **Question 4** | What is a compiler? |
| **Answer** |  |

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| **Question 5** | What is a source program? |
| **Answer** |  |

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| **Question 6** | What is an object program? |
| **Answer** |  |

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| **Question 7** | What do you call a program that runs Java byte-code instructions? |
| **Answer** |  |

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| **Question 8** | Suppose you define a class named NiceClass in a file. What name should the file have? |
| **Answer** |  |

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| **Question 9** | Suppose you compile the class NiceClass. What will be the name of the file with the resulting byte-code? |
| **Answer** |  |

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| **Question 10** | Which of the following may be used as variable names in Java?  rate1, 1stPlayer, myprogram.java, long, TimeLimit, numberOfWindows |
| **Answer** |  |

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| **Question 11** | Can a Java program have two different variables named number and Number |
| **Answer** |  |

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| **Question 12** | Give the declaration for two variables called feet and inches . Both variables are of type int and both are to be initialized to zero in the declaration. |
| **Answer** |  |

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| **Question 13** | Give the declaration for two variables called count and distance. count is of type int and is initialized to zero. distance is of type double and is initialized to 1.5 . |
| **Answer** |  |

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| **Question 14** | Write a Java assignment statement that will set the value of the variable distance to the value of the variable time multiplied by 80. All variables are of type int. |
| **Answer** |  |

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| **Question 15** | Write a Java assignment statement that will set the value of the variable interest to the value of the variable balance multiplied by the value of the variable rate. The variables are of type double. |
| **Answer** |  |

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| **Question 16** | What is the output produced by the following lines of program code?  char a, b;  a = 'b';  System.out.println(a);  b = 'c';  System.out.println(b);  a = b;  System.out.println(a); |
| **Answer** |  |

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| **Question 17** | Convert each of the following mathematical formulas to a Java expression: |
| **Answer** |  |

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| **Question 18** | What is the output of the following program lines?  double number = (1/3) \* 3;  System.out.println("(1/3) \* 3 is equal to " + number); |
| **Answer** |  |

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| **Question 19** | What is the output produced by the following lines of program code?  int quotient, remainder;  quotient = 7 / 3;  remainder = 7 % 3;  System.out.println("quotient = " + quotient);  System.out.println("remainder = " + remainder); |
| **Answer** |  |

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| **Question 20** | What is the output produced by the following code?  int result = 11;  result /= 2;  System.out.println("result is " + result); |
| **Answer** |  |

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| **Question 21** | Given the following fragment that purports to convert from degrees Celsius to degrees Fahrenheit, answer the following questions:  double celsius = 20;  double fahrenheit;  fahrenheit = (9 / 5) \* celsius + 32.0;  a. What value is assigned to fahrenheit ?  b. Explain what is actually happening, and what the programmer likely wanted.  c. Rewrite the code as the programmer intended. |
| **Answer** |  |

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| **Question 22** | What is the output produced by the following lines of program code?  int n = ( int)3.9;  System.out.println("n == " + n); |
| **Answer** |  |

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| **Question 23** | What is the output produced by the following lines of program code?  int n = 3;  n++;  System.out.println("n == " + n);  n−−;  System.out.println("n == " + n); |
| **Answer** |  |

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| **Question 24** | What is the output produced by the following?  String verbPhrase = "is money";  System.out.println("Time" + verbPhrase); |
| **Answer** |  |

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| **Question 25** | What is the output produced by the following?  String test = "abcdefg";  System.out.println(test.length());  System.out.println(test.charAt(1)); |
| **Answer** |  |

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| **Question 26** | What is the output produced by the following?  String test = "abcdefg";  System.out.println(test.substring(3)); |
| **Answer** |  |

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| **Question 27** | What is the output produced by the following?  System.out.println("abc\ndef"); |
| **Answer** |  |

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| **Question 28** | What is the output produced by the following?  System.out.println("abc\\ndef"); |
| **Answer** |  |

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| **Question 29** | What is the output produced by the following?  String test = "Hello Tony";  test = test.toUpperCase();  System.out.println(test); |
| **Answer** |  |

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| **Question 30** | What is the output of the following two lines of Java code?  System.out.println("2 + 2 = " + (2 + 2));  System.out.println("2 + 2 = " + 2 + 2); |
| **Answer** |  |

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| **Question 31** | Suppose sam is an object of a class named Person and suppose increaseAge is a method for the class Person that takes one argument that is an integer. How do you write an invocation of the method increaseAge using sam as the calling object and using the argument 10? The method increaseAge will change the data in sam so that it simulates sam aging by 10 years. |
| **Answer** |  |

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| **Question 32** | The following code is supposed to output the string in lowercase letters but it has an error. What is wrong?  String test = "WHY ARE YOU SHOUTING?";  test.toLowerCase();  System.out.println(test); |
| **Answer** |  |

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| **Question 33** | What are the two kinds of comments in Java? |
| **Answer** |  |

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| **Question 34** | What is the output produced by the following Java code?  /\*\*  *Code for Exercise.*  \*/  System.out.println("Hello");  *//System.out.print("Mr. or Ms. ");*  System.out.println("Student"); |
| **Answer** |  |

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| **Question 35** | What is the normal spelling convention for named constants? |
| **Answer** |  |

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| **Question 36** | Write a line of Java code that will give the name ANSWER to the int value 42.  In other words, make ANSWER a named constant for 42. |
| **Answer** |  |