1a. HelloWorld.java

1b. javac HelloWorld.java

1c. java HelloWorld

2. Variable declaration defines the type of the variable and the variable name (no memory allocated at this time). Variable assignment assigns a value to the memory space. Variable initialisation assigns the first value to the variable.

3a. X is declared to be a constant so the value cannot change after initialisation.

3b. = is an assignment operator not an equality operator.

3c. z has not been declared and x has not been initialised (Java is not like C++ where a default value is assigned).

3d. To concatenate two strings, the “+” operator should be used. System.out.println only accepts one argument. Java is also case-sensitive (s1 is different from S1).

3e. Variable names cannot start with a number.

3f. “this” is a reserved key word.

4a. 9

4b. 18

4c. 4

4d. 14

4e. -14

4f. -2

4g. 18.4

4h. 2.4

4i. 3

4j. 3 (assign value of “i” to “j” first then increase value of “i” to 4)

4k. 5 (increase value of “i” first then assign value to “k”)

5. (T || T) && !T

T && F

F

6a. TRUE

6b. TRUE

6c. TRUE

6d. FALSE

7a. x = 1, y = 1

7b. x = 20

7c. s = “Get “, t = “Shorty”, title = “Get Shorty”