

Exercise 2

Complete the following questions.

1. State whether the following statements are true or false
 - a. There are eight primitive types built into the Java programming language.
 - b. In the Java programming language, the variable names `intgrade` and `intGrade` are the same.
 - c. `byte`, `short`, `int` and `long` are the four integral primitive types in the Java programming language.
 - d. A boolean type variable holds `true`, `false` and `nil`.
2. Which answer best describes the following variable declaration

```
final double PI = 3.14159;
```

- a. This is the value assignment for an integral primitive type.
 - b. The name of the variable is Java programming language keyword.
 - c. The variable is a constant.
 - d. The variable is incorrectly named, according to the naming guidelines.
3. Which of the following operations correctly illustrate operator precedence in the following calculation?

```
X = 1 + 2 * 5 - 8 + 6 / 7 * 4;
```

- a. $(1 + 2) * (5 - 8) + (6 / (7 * 4))$
 - b. $1 + (2 * 5) - 8 + ((6 / 7) * 4)$
 - c. $(1 + 2) * (5 - ((8 + 6) / (7 * 4)))$
 - d. $1 + (2 * (5 - 8)) + ((6 / 7) * 4)$
4. Examine the following code, and select the correct output after execution.

```
int a = 5;  
int b = ++a;  
System.out.println("a = " + a + " and b = " + b);
```

- a. `a = 5` and `b = 5`
 - b. `a = 5` and `b = 6`
 - c. `a = 6` and `b = 6`
 - d. `a = 6` and `b = 5`

THE END.