CHAPTER 3 REVIEW DRILL

Answers to the review questions can be found in Chapter 9.

- 1. Consider the following code segment:
 - Line 1: int a = 10;
 - Line 2: double b = 10.7;
 - Line 3: double c = a + b; 20.7
 - Line 4: int d = a + c; E Cannot assign double to last en
 - Line 5: System.out.println(c + " " + d);

What will be output as a result of executing the code segment?

- 20 (A) 20
- (B) 20.0 30
- (C) 20.7 31
- (D) 20.7 30.7
- Nothing will be printed because of a compile-time error.
- 2. Consider the following code segment:
 - Line 1: int a = 10;
 - Line 2: double b = 10.7;
 - Line 3: int d = a + b;

Line 3 will not compile in the code segment above. With which of the following statements could we replace this line so that it compiles?

- int d = (int) a + b;
- II. int d = (int) (a + b); & constill cast double so, in
- III. int d = a + (int) b;
- (A) I
- (B) II
- (C) III
- (D) I and III
- (E) II and III

3. Consider the following code segment.

```
Line 1: int a = 11;
Line 2: int b = 4;
Line 3: double x = 11;
Line 4: double y = 4;
Line 5: System.out.print(a/b);
Line 6: System.out.print(", ");
Line 7: System.out.print(x/y); Ap wile
Line 8: System.out.print(", ");
Line 9: System.out.print(a/y); Louke
```

What is printed as a result of executing the code segment?

- (A) 3, 2.75, 3
- (B) 3, 2.75, 2.75
- (C) 2, 3, 2
- 2, 2.75, 2.75
- (E) Nothing will be printed because of a compile-time error.