Question Q3: Chapter 3 Concepts *<8 marks>*

Q3–1. [8 marks] Suppose the application `Question3App` below has been compiled without error and has been invoked. (The API for the classes used by this app can be found in the midterm appendix.) Draw a memory diagram to reflect the contents of memory **up to and including line 7.**

```
1   import type.lib.Rectangle;
2
3   public class Question3App {
4     public static void main(String[] args) {
5       int width = 50;
6       int height = 100;
7       Rectangle rect1 = new Rectangle(width, height);
8       Rectangle rect2 = new Rectangle(width, height);
9       boolean test1 = rect1 == rect2;
10      boolean test2 = rect1.equals(rect2);
11      rect1.setHeight(150);
12      System.out.println(rect1.getArea());
13    }
14  }
```