

I. A) Object Variables (2.1-2.2)

- 1) a) Open and Run **APch02lab01.java**
b) What is the output: _____

- 2) a) In **AP1ch02lab01** replace the two statements: **Rectangle cerealBox;** and **cerealBox = new Rectangle(5, 10, 20, 30);** with the single combined statement of **Rectangle cerealBox = new Rectangle(5, 10, 20, 30);**
b) Run **APch02lab01**
c) What is the output: _____

d) Is the output the same as 1b)? (yes/no) _____

- 3) a) After the statement **Rectangle cerealBox = new Rectangle(5, 10, 20, 30);** add the line **cerealBox.translate(15, 25);**
b) Run **APch02lab01**
c) What is the output: _____

- 4) a) i) Before the statement **cerealBox.translate(15, 25);** add the 2 statements **Rectangle xBox;** and **xBox = cerealBox;**
ii) Change the statement **cerealBox.translate(15, 25);** to **xBox.translate(15, 25);**
iii) Change **System.out.println(cerealBox);** to **System.out.println(xBox);**
b) Run **APch02lab01**
c) What is the output: _____

d) Compare this output to #3) above. Are the outputs the same? (yes/no) _____

- 5) a) Delete the statement **xBox = cerealBox;**
b) Run **APch02lab01**
c) What happens? _____
(Note: Read the top of page 41 for an explanation of what happened.)

- 6) a) i) Add back in the statement **xBox = cerealBox;**
ii) Comment out the import statement
b) Run **APch02lab01**
c) What happens? _____

OVER

B) Read page 39 and pages 41 (bottom) and page 42 to help answer the following

- 1) The import statement in this program has a package called what? _____
- 2) In this package the Class we just used above is called what? _____
- 3) **awt** stands for what? _____
- 4) The package that is automatically imported into all Java programs and contains System and String is the package called **java. ?** _____

C) Read pages 37-39 to help answer the following

- 1) The object in the original **AP1ch02lab01.java** program is what? _____
- 2) The Class in the **AP1ch02lab01.java** program is what? _____
- 3) The method - not main() and not println() - in **AP1ch02lab01.java** is what? _____

Turn in this sheet to be graded!