

WORKSHEET A3.2

Precedence and Assignment Operators

For all of the following expressions (questions # 1-8), use precedence rules to determine the correct answer:

1. $8 + 3 * 6 / 5 \% 6 - 9$

5. $12 * 3 \% 8 / 2$

2. $(8 * 3) / 9 + 2 * 5$

6. $(12 * 3) \% (8 / 2)$

3. $(\text{double}) 9 / 4$

7. $17.5 / 3.75 + 2$

4. $(\text{int}) 17.5 / 3$

8. $12.5 \% 3$

9. Explain how this statement is evaluated: $a = b = 2;$

For questions # 10-12, translate each of the following statements into Java code. Where appropriate, several versions will be requested:

10. Increment *number* by 10. (2 versions)

a. longer version

b. using assignment operator

11. Increment *count* by 1. (2 versions)

a. longer version

b. using increment operator

12. Multiply *base* by 2. (2 versions)

a. longer version

b. using assignment operator

For questions # 13 and # 14, determine the final values of a and b for each fragment of code:

13.

```
b = 2;  
a = ++b;
```

14.

```
b = 2;  
a = b++;
```