PRECEDENCE AND ASSIGNMENT OPERATORS

Using precedence rules, determine the correct answer to the following expressions:

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

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

3. (**double**) 9 / 4

4. (**int**) 17.5 / 3

5. 12 * 3 % 8 / 2

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

7. 17.5 / 3.75 + 2

8. 12.5 % 3

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

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

Determine the result of the following fragments of code:

13. final value of *a* & *b*

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

14. final value of *a* & *b*

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

15. What is the most important reason for using constants in a program?

