ANSWER KEY

1.	В	9.	D STEERING STREET	17.	D
2.	E	10.	A	18.	В
3.	D	11.	C	19.	C
4.	E 1995 - 1995 - 1995	12.	D	20.	В
5.	E	13.	A	21.	E
6.	C	14.	С	22.	D
7.	В	15.	A	23.	D
8.	D	16.	D		

ANSWERS EXPLAINED

- (B) When x is converted to an integer, as in segment I, information is lost. Java requires
 that an explicit cast to an int be made, as in segment II. Note that segment II will cause
 x to be truncated: The value stored in y is 14. By requiring the explicit cast, Java doesn't
 let you do this accidentally. In segment III, y will contain the value 14.0. No explicit cast
 to a double is required since no information is lost.
- 2. **(E)** The string argument contains two escape sequences: '\\', which means print a backslash (\), and '\n', which means go to a new line. Choice E is the only choice that does both of these.
- 3. **(D)** Short-circuit evaluation of the boolean expression will occur. The expression (n != 0) will evaluate to false, which makes the entire boolean expression false. Therefore the expression (x / n > 100) will not be evaluated. Hence no division by zero will occur, causing an ArithmeticException to be thrown. When the boolean expression has a value of false, only the else part of the statement, **statement2**, will be executed.
- 4. **(E)** For this choice, the integer division 13/5 will be evaluated to 2, which will then be cast to 2.0. The output will be 13/5 = 2.0. The compiler needs a way to recognize that real-valued division is required. All the other options provide a way.
- 5. **(E)** The operators *, /, and % have equal precedence, all higher than -, and must be performed first, from left to right.

6. **(C)** The expression must be evaluated as if parenthesized like this:

$$(2 + 3) * 12 / (7 - 4 + 8)$$

This becomes 5 * 12 / 11 = 60 / 11 = 5.