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| **Name: KEY** | **Period:** |

1. What is *nesting*?

2. Besides *selection*, what other control structures can be nested?

*repetition*

3. Why does the **boolean** data type exist?

*it adds readability*

4. Is a *compound condition* limited to 2 conditions?

*No*

5. Why is a **do...while** loop structure frequently used for input protection?

*it guarantees that the loop body is executed at least once*

6. What is known about equavalent Boolean expressions?

*The truth tables are identical*

7. What are the 2 possible values of the **boolean** data type?

*true and false*

8. 9. What symbol does Java use for a logical "or" ?

*||*

10. What symbol does Java use for a logical "and" ?

*&&*

11. What symbol does Java use for a logical "not" ?

*!*

12. What symbol does Java use for a logical "xor" ?

*!=*

13. Which loop structure is probably the easiest for nesting?

*the for loop*

**In questions 14 through 17, the answer is either** true**,** false**, or** unknown**.**

14. If A is true, what is the value of A or ((B and C) or (A or C) and (A and B)) ?

*true*

15. If A is false, what is the value of A and ((B and C) or (A or C) and (A and B)) ?

*false*

16. If A is false, what is the value of A or ((B and C) or (A or C) and (A and B))?

*unknown*

17. If A is true, what is the value of A and ((B and C) or (A or C) and (A and B)) ?

*unknown*