

INTRODUCTORY LOGIC | Test 3, Form B  
Lessons 12–18 (51 points)

Name \_\_\_\_\_

1. What are the three rules for writing statements in standard categorical form?

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Problems 2–7: Translate the statement into standard categorical form. Do not abbreviate.

2. Every good boy deserves fudge.

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3. Many law students do not study logic.

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4. Nobody's perfect.

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5. Someone came knocking.

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6. Not all that glitters is gold.

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7. Torture is never justified.

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8. What is the *quality* of the statement in problem 2? \_\_\_\_\_

9. What is the *quantity* of the statement in problem 3? \_\_\_\_\_

10. What is the type of statement in problem 4? Circle the correct choice:     A   E   I   O

11. What is the type of statement in problem 5? Circle the correct choice:     A   E   I   O

12. Give an example of a true universal affirmative statement.

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13. Give an example of a false particular negative statement.

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14. Draw a complete square of opposition. Include labeled relationship lines.

Problems 15–18: Consider the statement “Some acids are peptides”

15. Write the contradiction: \_\_\_\_\_

16. Write the subcontrariety. \_\_\_\_\_

17. If the statement is false, what is the truth value of “All acids are peptides”? \_\_\_\_\_

18. If the statement is false, what is the truth value of “Some acids are not peptides”? \_\_\_\_\_

Problems 19–20: Assume the first statement has the truth value given. Then determine the corresponding truth value of the other statements in the set by circling T for true, F for false.

19. Assume this statement is *true*: “No men are angels.” Determine the truth value of:

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|-----------------------------|---|---|
| a. Some men are angels.     | T | F |
| b. Some men are not angels. | T | F |
| c. All men are angels.      | T | F |

20. Assume this statement is *false*: “Some spots are not dots.” Determine the truth value of:

- |                         |   |   |
|-------------------------|---|---|
| a. No spots are dots.   | T | F |
| b. Some spots are dots. | T | F |
| c. All spots are dots.  | T | F |