

INTRODUCTORY LOGIC | Test 5, Form A  
Lessons 24–26 (47 points)

Name \_\_\_\_\_

1. What is a *counterexample*? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. What does it mean that a term is *distributed*? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Problems 3–4: Show the given mood and figure to be invalid by writing a counterexample.

3. OAO-2 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. AEE-3 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Problems 5–6: Write a counterexample for the given syllogism to show that it is invalid.

5. All destroyers are warships.  
Some warships are aircraft carriers.  
Therefore, some aircraft carriers are destroyers.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. Some guitars are electrical instruments.  
No electrical instruments are devices intended to be used underwater.  
Therefore, some devices intended to be used underwater are not guitars.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. Circle the distributed terms in the given statements.

All chateaus are mansions.

No jayvees are delinquents.

Some spokesmen are celebrities.

Some keepsakes are not mementoes.

Problems 8–10: Translate the given argument into a syllogism in standard categorical form. Do not abbreviate. Then identify which rules (if any) are violated in the given syllogism by writing the name of any fallacies made. If no fallacies are made in the syllogism, write *VALID*.

8. Some boxers hit their friends. But nobody who hits his friend is a pacifist. Therefore, no boxers are pacifists.

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Fallacies made: \_\_\_\_\_

9. Some rodents are lab specimens, because most mice are not lab specimens, but all mice are rodents.

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Fallacies made: \_\_\_\_\_

10. All fables are fictional stories. So some newspaper articles are fables, since some newspaper articles are fictional.

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Fallacies made: \_\_\_\_\_

11. Write out the schema of a syllogism which makes these two fallacies (and no others): illicit major, and two negative premises.

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