For Questions 1-6, circle T if the statement is true or F if the statement is false.

1. The validity of a syllogism depends solely on its form.   T   F

2. All counterexamples have a true conclusion.   T   F

3. It is possible to write a counterexample for a valid syllogism.   T   F

4. A counterexample is formed by substituting terms into a syllogism   T   F
    of the same form as the original.

5. All counterexamples have false premises.   T   F

6. Distributed means that a term refers to all members of its category.   T   F

For 7-8, Show the given mood and figure to be invalid by writing a counterexample.

7. EAE-3

    _____

    _____

    _____

8. IEO-4

    _____

    _____

    _____

Determine the form of each syllogism and then write a counterexample syllogism to show that it is invalid.

9. No old men are football players.
    Some football fans are not football players.
    Therefore, some football fans are not old men.

    FORM_____

    _____

    _____

    _____

10. Some professional nurses are not licensed medical practioners.
Some graduates of medical school are professional nurses.
Therefore, all graduates of medical school are licensed medical professionals..

FORM_____

_____

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_____

11. Circle the distributed terms in the given statements.

    a.   Some robots are programmed humanoids.

    b.   No tele-judges are Supreme Court justices.

    c.   All epic poems are works of great artistry.

    d.   Some secret agents are not arrogant mothers.

For Problems 12-14, Translate the given argument into a syllogism in standard form. Then identify which rules (if any) are violated in the given syllogism by writing the name of the fallacy made. If no fallacies are made in the syllogism, write VALID.

12. All computer mouses are electronic devices. Therefore, some things with tails are not computer mouses because some electronic devices are things with tails.

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FALLACIES_____

13. No whales are fish since some whales are breathers, but no fish are breathers.

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FALLACIES_____