Exercises for Reading 2.02

	ntire chapter. Then read the introductory section at er. Read this section carefully and try to understand it as best you can.
1. What are we discussing in this The Mood in syllogisms.	chapter?
2. Fill in the following chart [Revi First Figure (sub-prae)	ew]:
M is the <u>Subject</u> (sul	oject or predicate) in the <i>major</i> premise
M is the <u>Predicate</u> (su	bject or predicate) in the <i>minor</i> premise
3. Give the definition of <i>figure</i> .	
Figure has to do with th 4. Give the definition of mood .	e disposition or location of terms in a syllogism.
	of the premises according to quantity and quality.
5. How many figures are there?	or the promises according to quantity and quanty.
Four	
 How many different moods ar 	e there?
7 If we say that a syllogism is in t	
•	statement and the second statement is an A statement.
8. If we say that a syllogism is in The first premise is an F	statement and the second premise is an A statement.
	wing syllogism (Include all three statements):
All mortals must die	Mood: AAA
All men are mortal	
Therefore, all men must die ≈	
	owing syllogisms (Include all three statements):
No men are immortal	Mood: EAE
All angels are immortal	
Therefore, no angels are men	
Exercises for Part 2. Read	the section titled, "Figure and Mood." Read the entire
section carefully.	
12. Fill in the following chart [Re	view]:
Second Figure (prae-pro	<u>ae)</u>
M is the Predicate (subi	ect or predicate) in the <i>major</i> premise
	ect or predicate) in the <i>minor</i> premise

13. Can syllogisms of the same mood be in different figures (Can there be, for example, an AA syllogism in the First and Second Figure)?

Yes

14. With sixteen different moods and four different figures, how many possible kinds of syllogisms are there?

64

15. Give one example of one whole mood that is invalid.

000

16. Of the 64 different kinds of syllogisms, how many are valid?

19

17. Fill in the following chart: [Review]

Third Figure (sub-sub)

M is the Subject (subject or predicate) in the *major* premise M is the Subject (subject or predicate) in the *minor* premise

18. Explain why syllogisms with the mood **OO** are always invalid.

No conclusion can be drawn from two negative premises.

19. For each of the following arguments, (1) name the mood and figure of the syllogism, and (2) tell whether it is valid or not.

Example:

No saints are villians
Some robbers are not villians
Therefore, some robbers are saints

- Mood and figure **EOI-2**
- Valid Invalid

All floods are devastating___
No drought is a flood
Therefore, no drought is devastating

- Mood and figure AEE-1
- Valid Invalid

All Protestants__ believe the trinity__
All Catholics__ believe the trinity__
Therefore, some Catholics__ are Protestants__

- Mood and figure AAI-2
- Valid
- Invalid

No Greeks are Romans

Some vegetables are not sweet No vegetable is a fruit Therefore, some fruits are not sweet

- Mood and figure OEO-3
- Valid
- Invalid

All symphonies are beautiful No opera is a symphony Therefore, no opera is beautiful

- Mood and figure AEE-1
- Valid
- Invalid

No maples __ are pines __ No oaks __ are pines __

Therefore, no oaks__ are maples__

- Mood and figure EEE-2
- Valid
- Invalid

No man is as wise as Solomon

Some soldiers are not Romans___
Therefore, some soldiers are not Greeks

- Mood and figure EOO-2
- Valid
- Invalid

No tornadoes are pleasant Some violent storms are tornadoes Therefore, no violent storms are pleasant

- Mood and figure EIE-1
- Valid
- Invalid

All Greeks are humans
All Athenians are Greeks
Therefore, All Athenians are humans

- Mood and figure AAA-1
- Valid
- Invalid

Einstein is a man

Therefore, Einstein is not as wise as Solomon

- Mood and figure EAE-1
- Valid
- Invalid

Some merry men are not in Sherwood Forest No sheriff is a merry man Therefore, no sheriff is in Sherwood Forest

- Mood and figure OEE-1
- Valid
- Invalid

All rabbits are very fast runners Some horses are very fast runners Therefore, some horses are rabbits

- Mood and figure All-2
- Valid
- Invalid

20. Complete the following diagram by giving the form of each statement and showing whether each term is distributed or undistributed: [Review]

DIAGRAM OF THE DISTRIBUTION OF TERMS IN A, I, E, ANDO STATEMENTS

Type of sentence	Subject-Term	Predicate-Term	Categorical Statements
Α	Distributed	Undistributed	All S are P
1	Undistributed	Undistributed	Some S are P
E	Distributed	Distributed	No S are P
0	Undistributed	Distributed	Some S are not P

21. Think up your own syllogisms of the following forms (not examples used in the readings/exercises:

Example:

EIO-1:

- ·No dog is a cat
- ·Some animals are dogs
- ·Some animals are not cats

AAA-1:

- ·All cats chase mice
- ·All tabbies are cats

Therefore, all tabbies chase mice.

AAA-2:

- ·All cats chase mice.
- ·All tabbies chase mice.
- ·All tabbies are cats. (The conclusion is true, but it is an invalid form. Rule IV)

OAO-3:

- ·Some holsteins are not space travelers
- ·All holsteins are cows
- ·Some cows are not space travelers

AEE-4:

- ·All astronauts are space travelers.
- ·No space travelers are giraffes.
- ·No giraffes are space travelers.

EAE-1:

- ·No bird has a prehensile tail.
- Everything with a prehensile tail can grasp things with their tail.
- ·No bird can grasp things with its tail.
- 22. Tell whether the following are true or false:
- T F Mood is the disposition of terms in a syllogism.
- T F When it comes to the mood, the order of the premises does not matter
- **T** F There are sixteen moods per figure.
- T F
- T F There are sixteen valid moods.
- T F Syllogisms in the mood EE are always invalid.