

Introductory Logic

Homework #6



Read pages 27-33 in the text.

Define the following:

- A statement –
- E statement –
- Contradiction –
- I statement –
- O statement –

For practice, try these exercises. Check your answers with those provided in the box below. Identify the form (A, E, I, or O) of each statement.

1. Some carrots are vegetables. _____
2. All carrots are vegetables. _____
3. Some carrots are not vegetables. _____
4. No carrots are vegetables. _____
5. Which two sets of categorical statements contradict one another? _____

Answers: 1. I 2.A 3.O 4.E Contradictory sets: A&O and I&E

If you had any trouble with the practice exercises, reread pages 27-33; otherwise, go on to Exercises 8 & 9.

Exercise Eight (p. 32)

1

2

3

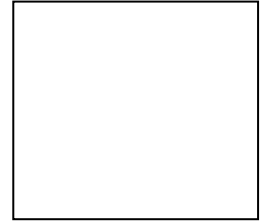
4

5

6

Exercise Nine (p.33)

1. 1st statement:
2nd statement:



2. 1st statement:
2nd statement:



Granium Calisthenics

Four playing cards numbered two through five, each of a different suit, are dealt to four players (Christine, Daniel, Bethany, and Caleb). Using the clues below, determine which card each player is holding. (Note: clubs and spades are black, diamonds and hearts are red.)

- Daniel holds the highest red card, but his card is one lower than Bethany's.
- Christine and Bethany hold cards of the same color.
- The four is a black card.
- The sum of the spade and diamond is higher than the sum of the club and heart.

<u>Player</u>	<u>Number</u>	<u>Suit</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____



		Number				Suit			
		Two	Three	Four	Five	Club	Diamond	Heart	Spade
Player	Christine								
	Daniel								
	Bethany								
	Caleb								
Suit	Club								
	Diamond								
	Heart								
	Spade								