

# Introductory Logic

## Homework #5

Read pages 21-26 of *Introductory Logic*. Define the following, summarizing from the text:



- Quantity of a statement –

- Quality of a statement –

For extra practice, list the four categorical statements and their respective quantity and quality. Try not to use your book! When you're finished, check your answers with page 24 of your text.

<u>Statement</u>	<u>Quantity</u>	<u>Quality</u>
1.		
2.		
3.		
4.		

Now, try these practice exercises. Check your answers with the ones provided in the box below.

Rewrite the following using only the verb of being and a predicate nominative.

1. My brother plays basketball. \_\_\_\_\_

2. The flowers grow fast. \_\_\_\_\_

Translate the following into categorical statements.

3. Cats are felines. \_\_\_\_\_

4. Many cats are pets. \_\_\_\_\_

5. Not all cats are pets. \_\_\_\_\_

6. Cats are not canines. \_\_\_\_\_

Answers: 1. My brother is a basketball player. 2. The flowers are fast growers. 3. All cats are felines. 4. Some cats are pets. 5. Some cats are not pets. 6. No cats are canines.

If you had any trouble with the practice exercises, reread pages 21-26. Otherwise, complete Exercises Six and Seven (pages 23 & 26) on the next page.

Exercise Six (page 23):

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

Exercise Seven (page 26):

- |           |           |
|-----------|-----------|
| 1. _____  | 6. _____  |
| 2. _____  | 7. _____  |
| 3. _____  | 8. _____  |
| 4. _____  | 9. _____  |
| 5. _____  | 10. _____ |
| 11. _____ |           |
| 12. _____ |           |
| 13. _____ |           |
| 14. _____ |           |

### Cranium Calisthenics



The first day of Logic class, each student shared what his/her favorite summer vacation trip was. Three of the students (Comfort, Christy, and Catherine) said that their favorite trip was camping near a lake (one went to Crater Lake, one to Timothy Lake, and one to Frog Lake). Each student had a different activity that she enjoyed most while camping there (canoeing, fishing, and hiking). From the clues below, can you determine which student went to which lake, and which activity each student favored most?

1. The first student that shared was the one who favored fishing. Later, Catherine shared. Finally, the one who went to Frog Lake.
2. The student who went to Crater Lake enjoyed hiking the most.
3. Christy wasn't the student who went to Timothy Lake.

	<u>Student</u>	<u>Lake</u>	<u>Activity</u>
1.			
2.			
3.			