

**11.520: A Workshop on Geographic Information Systems**

**11.188: Urban Planning and Social Science Laboratory**

## **Lab Assignment 6: Vector Spatial Analysis**

Due: Lab 7

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Please hand in your answer in class during Lab 7

Your Name: \_\_\_\_\_

Your Athena Username: \_\_\_\_\_

1. Please write a brief (few sentence) description of an interesting cluster pattern for bookstore locations within Cambridge.
2. Create a labeled and annotated map supporting your description in Question 1.
3. How many children 5 and under were living within 1/2 mile of Ames Street?
4. Make a map showing Ames Street and the 1/2 mile buffer on top of a thematic map of the number children 5 and under by block group.
5. Briefly describe the difference between the themes produced by the union and intersect operations.

Both maps and the answer sheet should be submitted. No electronic turn in is required. Your maps may either be in grayscale or color; just make sure they are readable whatever you choose.

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