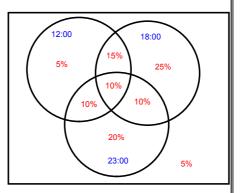
5.1 Question 4

40% watch 12:00 news 60% watch 18:00 news 50% watch 23:00 news 25% watch 12:00 and 18:00 20% watch 12:00 and 23:00 20% watch 18:00 and 23:00

10% watch all three



a) What percentage watched at least one program

$$n(12:00 \cup 18:00 \cup 23:00) = 95\%$$

- b) What percent watch none of these programs 5%
- c) What percent view the news at 12:00 and 18:00 but not 23:00

```
5% + 15% + 25% = 45%
```

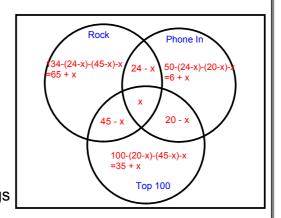
- d) What percent view only one of these shows n(12 only) + n(18 only) + n(23 only)5% + 25% + 20% = 50%
- e) What percent view exactly two of these shows? 10% + 15% + 10% = 35%

Sep 25-9:39 PM

5.1 Question 8

DJ has 200 selections including

the top 100 (100 songs) 134 rock 50 phone in 45 rock in top 100 20 phone in top 100 24 phone in for rock songs



a) How many phone in for rock songs in top 100?

n(Rock
$$\cup$$
Phone-In \cup Top100) = 200
: (65 + x)+(24-x)+(6+x)+(45-x)+x+(20-x)+(35+x)=200
195 + x = 200
x = 5

b) How many were in the top 100 but neither phone in or rock selections?

$$35 + x = 35 + 5 = 40$$