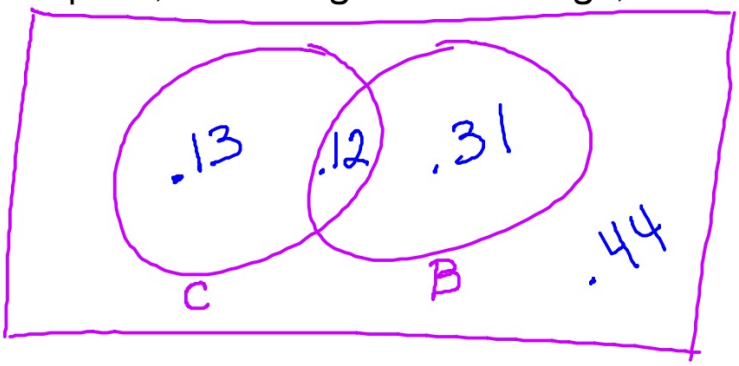
Venn Diagrams

At a grocery store, customers were surveyed:
25% use coupons, 43% bring their own bags, and12% do both.

25
−12
13



Coupons or Bags
56%

What percent of customers

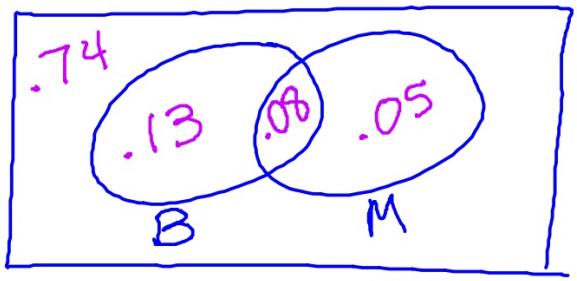
use coupons only? 13%

use coupons or bring their bags but not both? 13+31 = 44%

do not use coupons or bring bags? 44%

21% of Lewis High School students are in the band. 13% are in the math club. 8% are in the band and the math club.

21
-8
13



.13: Band only
.05: Math club only
.08: Both

What is the probability of randomly selecting a student that is in the

math club only .05

math club or band .26

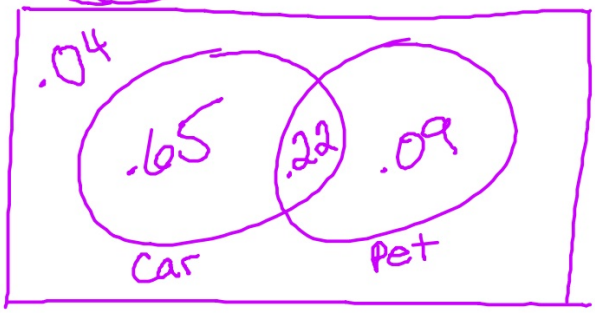
math club or band, but not both .18

neither the band or the math club .74

Suppose 87% of college students own a car, 31% have a pet, and 22% have a car and a pet.

Car only:
87−22

Pet only
31−22



What is the probability of randomly selecting a college student that has

a car but not a pet? .65

neither a car or a pet? .04

a car or a pet? .65+.22+.09 = .96