6 3F conti, Coin & Cosided dre P(H and no+6) obviously independent objects - P(H) x P(no+6) 12.5/12

P(hilting tenget) = 8 : P(missing target) = 1 - 8 = 1

8) 4 cards, w/replacement inclependent

C (.24) .36)

.6-.24= .36

P(E')=.6 .36 + P(neither) = .6 P(neither) = -24 .24+,24+,36=1

in P(Eonly)=0

a) P(E)=,24

* b) P(E) XP(F)= P(EnF) .24 x.6 = .24 .144 = ,24

. . E and Fare not inclependent

c) E and F are not mutually exclusive blc P(ENF) \$ 0

d) P(EUF) = .24+,24 = ,48

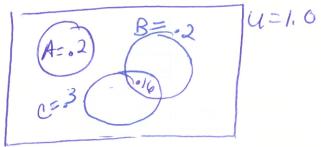
Exercise 3F

$$\frac{1}{5} \cdot \frac{1}{5} = \boxed{\frac{1}{25}}$$

large school 3 selected w/o
replacement but
replacement but
still independent
b/c schoolis large

"Assure independent"

3 A, B, C mutually exclusive



Test for idependence:

no a Bancare not independent

3 bags, each have 4 Red 8 Blue P(R,B,R)

Separate bags: independent

$$P(R) \times P(B) \times P(R)$$

$$\frac{4}{12} \times \frac{8}{12} \times \frac{4}{12} - \boxed{128}$$

$$1728$$

(1) le sided die

1,2,2,5,6,6

3 rolls .: inclemendent

P(scores add up to 6)

the only way to get to is 2,2,2

D A and B ore inclipendent"

