

4.1] (p16)

4.15 Bowl with 12 poker chips - 3 red, 4 white, 5 blue
Select one at random.

$\frac{f}{N}$ - frequency of event
total # of options

a) Prob of selecting red.

$$f = 3 \quad \frac{f}{N} = \frac{3}{12} = \frac{1}{4}$$

$$N = 12$$

b) Prob of selecting red or white

$$\frac{7}{12}$$

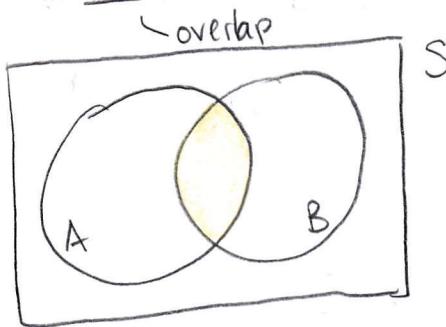
c) not white

$$\frac{8}{12} = \frac{2}{3} \approx 0.67$$

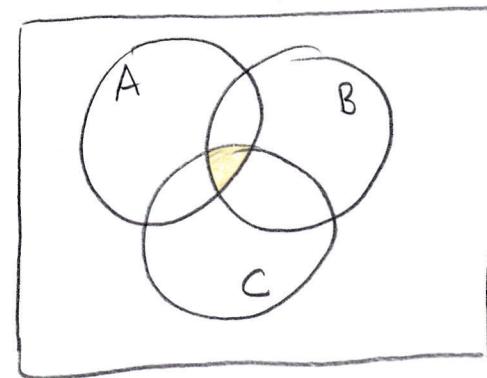
4.2] p170

43-45

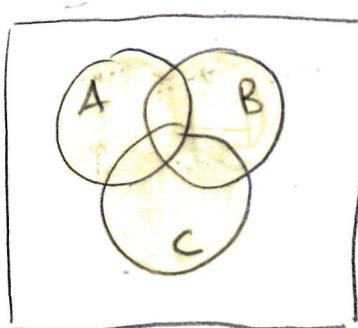
a) (A and B)



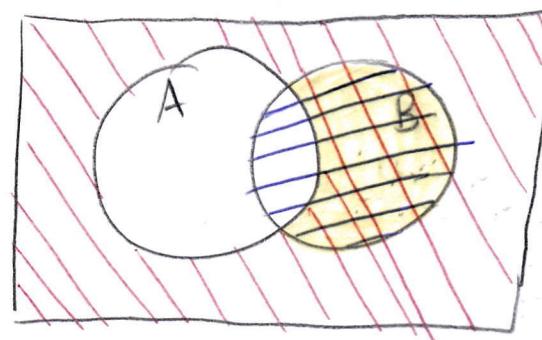
b) (A and B and C)



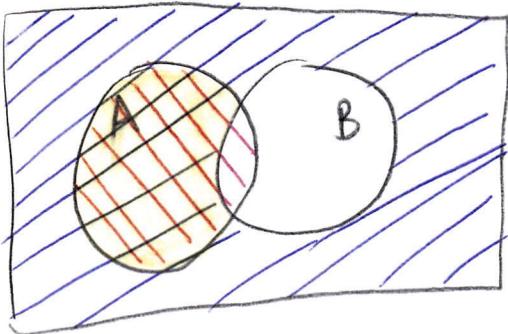
44) a) (A or B or C)



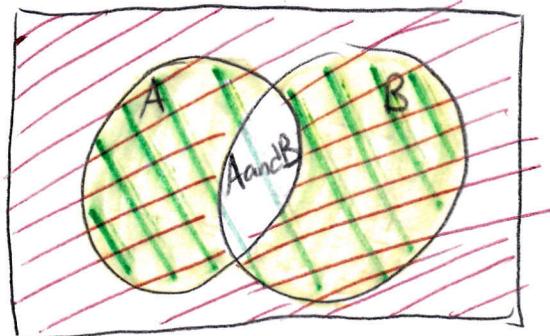
b) ((not A) and B)



45) a) (A and (not B))



b) ((A or B) and (not (A and B)))



63)

	<u>Games Required</u>	<u>Frequency</u>
S	4	21
	5	24
	6	24
a)	7	36

A = event WS decided in 4 games

B = event WS decided in < 6 games

C = event WS decided in 7 games

WS decided in 5, 6, or 7 games. $24 + 24 + 36 = 84$

b) (A and B)

WS decided in 4 games

21

c) (A or C)

WS decided in 4 or 7 games

$21 + 36 = 57$

d) (A and C)

Impossible event!

0