

→ Homework 2 Allow to share ✓

① $1 + n^2$

Each row and column be same number

So divide by total number sum

$$\sum_{k=1}^n k \quad \text{So divide by } n$$

$$\frac{k=n}{\sum k} = \frac{n+1}{2}$$

② 3×3 So total number
 $1+2+3+4+5 = 15$
 $15 / 3 = 5$

1
2 4
3 5 6
7 8
9

2 9 4
7 5 3
6 1 8

8
800 369
654 56 89
135 55 45 214

③ 4×4 $\frac{16(16+1)}{2} = 136$
 So add 34

1 2 3 4 14 15
 5 6 7 8 13 12 11
 9 10 11 12 6 10 11
 13 14 15 16 12 13 3

4 14 15 1
 9 7 6 12
 5 11 10 8
 16 2 3 13

$$\frac{245}{4550/2}$$

(4) 7×7

$$49 \times 50 = \frac{49}{1225} = 175$$

1
 2 25
 3 15 26
 4 16 27
 5 17 28
 6 18 29
 7 19 47 48 49 30 31 7 25 43 14 37
 8 20 46 45 44 43 31 38 14 32 1 26 44 20
 9 21 41 40 32 30 21 39 8 33 2 27 45
 10 22 39 38 33 45 15 40 9 34 3 28
 11 23 37 34
 12 24 35
 13 36
 14

(5) A: 113 15, 7 | B: 246

	2	4	6
1	W	W	W
3	L	W	W
5	L	L	W
7	L	L	L

B has 0 wins
 A has 6 wins
 So 50/50 chance of winning.

Deck A: 294

Deck B: 753

Deck C: 618

AVS B

294
7L Wk
5L Wh
3L Ww

A is favored
by $\frac{4}{5}$

AVS C

294
6L Wh
1W Ww
2L Wl

so A is favored

AVS C

753
6 WLL
1 WWWW
8 LLL

so C is favored

so ~~is~~ is paradox
not.