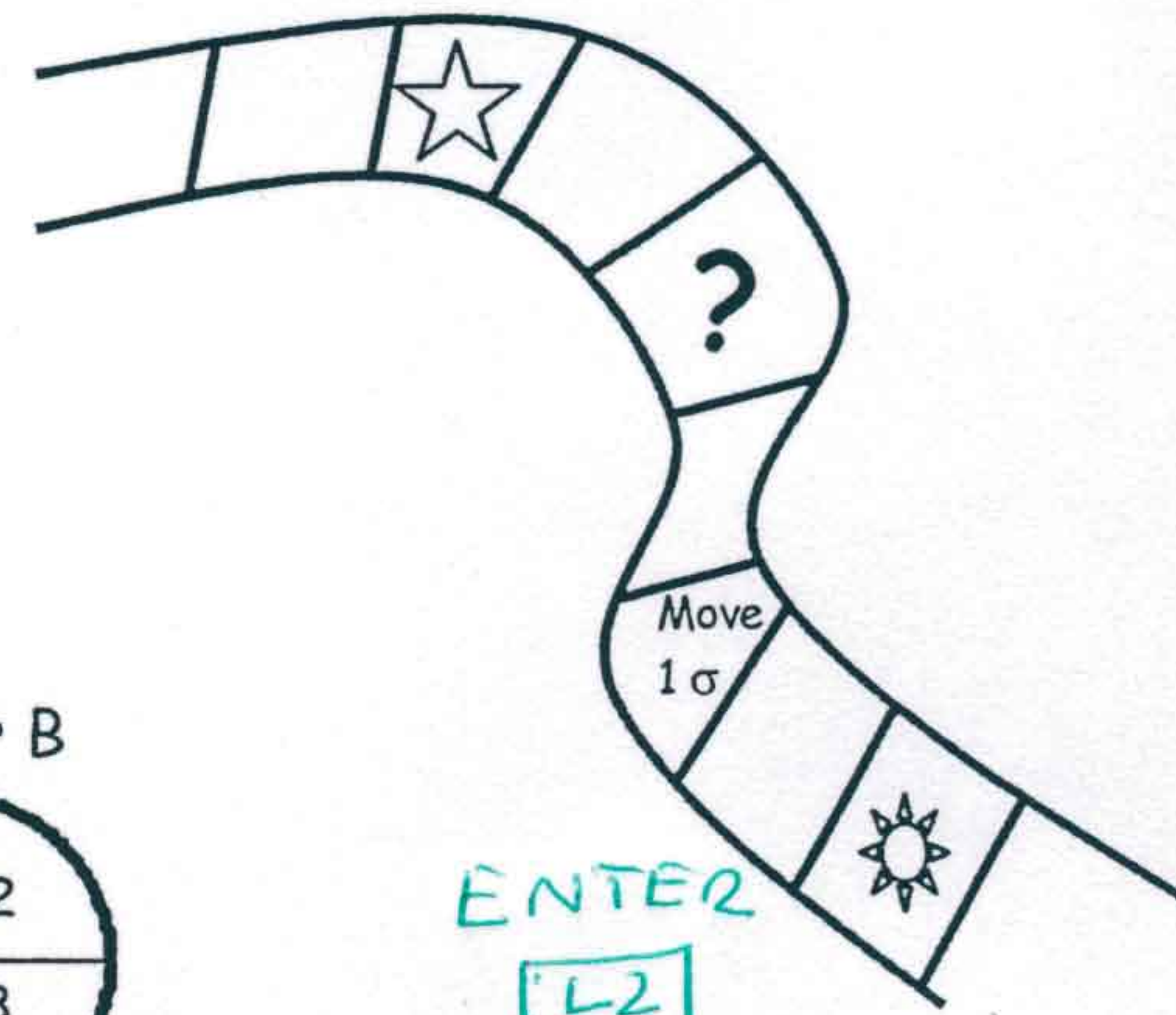


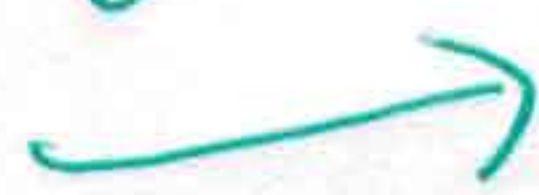
# Let's Play STAT Land!

You are playing a new game, STAT land, in which you must spin two spinners. You move the sum of the two numbers spun.

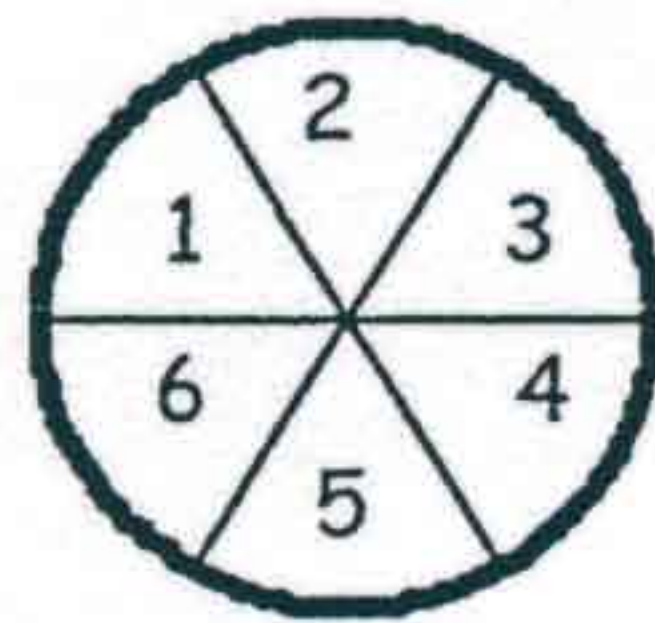


ENTER L1

- 1
- 2
- 3
- 4
- 5
- 6



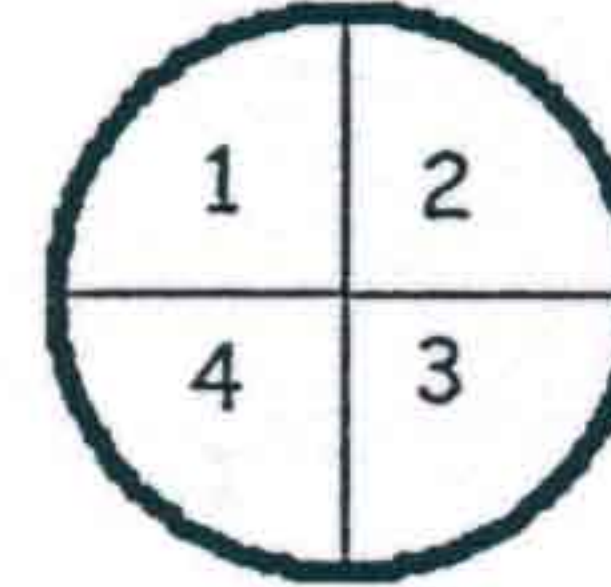
Spinner A



$$\mu_A = \underline{3.5}$$

$$\sigma_A = \underline{1.708}$$

Spinner B



$$\mu_B = \underline{2.5}$$

$$\sigma_B = \underline{1.118}$$

ENTER L2

- 1
- 2
- 3
- 4



List all the possible sums for the two spinners:

	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9
4	5	6	7	8	9	10

$$\mu_{A+B} = \underline{6}$$

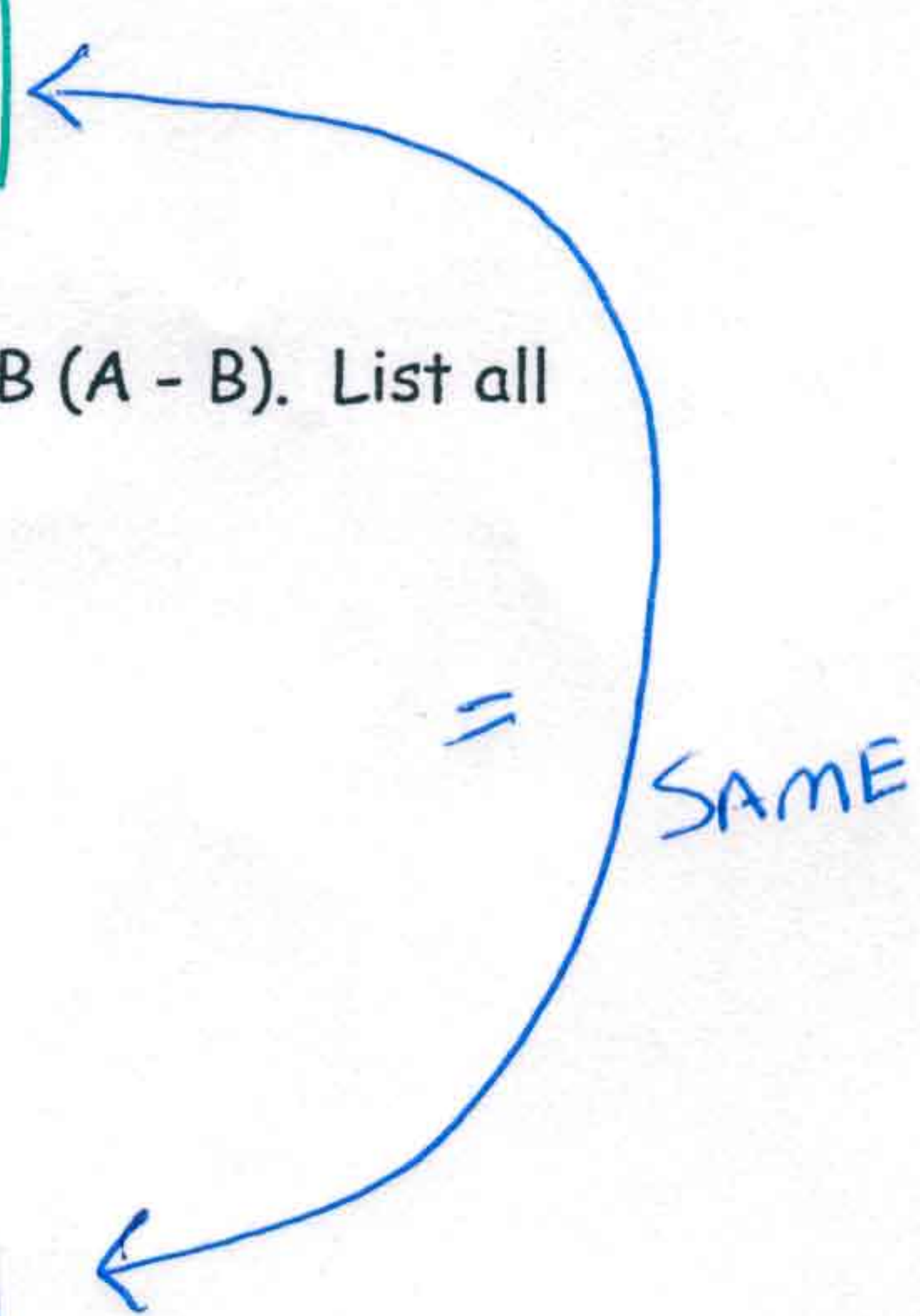
$$\sigma_{A+B} = \underline{2.041}$$

Suppose one version of the game had you move the difference of spinner A and spinner B (A - B). List all possible differences of the two spinners:

	1	2	3	4	5	6
1	0	1	2	3	4	5
2	-1	0	1	2	3	4
3	-2	-1	0	1	2	3
4	-3	-2	-1	0	1	2

$$\mu_{A-B} = \underline{1}$$

$$\sigma_{A-B} = \underline{2.041}$$



Rule:

$$\mu_{A+B} = \mu_A + \mu_B$$

$$\mu_{A-B} = \mu_A - \mu_B$$

$$\sigma = \sqrt{\sigma_A^2 + \sigma_B^2}$$

$$\sigma = \sqrt{1.708^2 + 1.118^2}$$

$$\sigma = 2.041$$

ROUND AT THE END!

•  $1.708^2 + 1.118^2$

• 2ND  $\sqrt$  2ND ANS