Wednesday, May 8, 2019

	Eat Breakfast	Skip Breakfast	Totals
Students: ages 10-13	40	14	54
Students: ages 14-17	12	24	36
Totals	47	43	90

- Warm-up
  - Using the following table
    - Joe says that P(Eat or ages 10-13) is $\frac{47}{90} + \frac{54}{90} = \frac{101}{90}$ Do you agree? explain. no

$- \frac{40}{90} = \frac{61}{90}$

$P(\text{eat} \mid 10\text{-}13)$ ↑ given

    - Julie says that P(Eat given ages 10 – 13) is $\frac{40}{47}$ Do you agree? explain.

$\frac{40}{54}$

- Egg Roulette

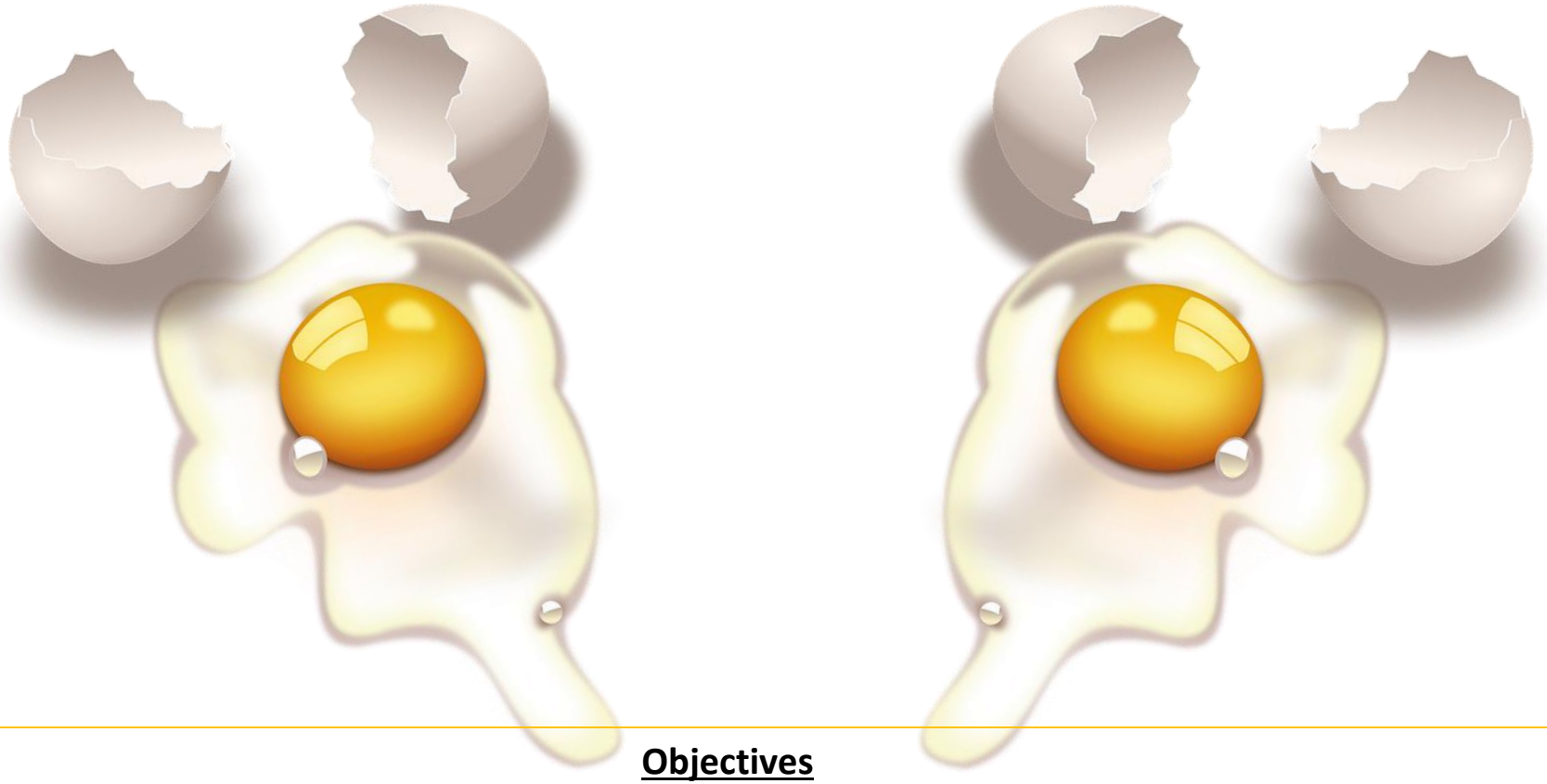
Objectives

Content: I will apply conditional probability and The Law of Large Numbers to examine situations.

Social: I will participate in class activities.

Language: I will read questions carefully and define The Law of Large Numbers in my own words.

Egg Roulette



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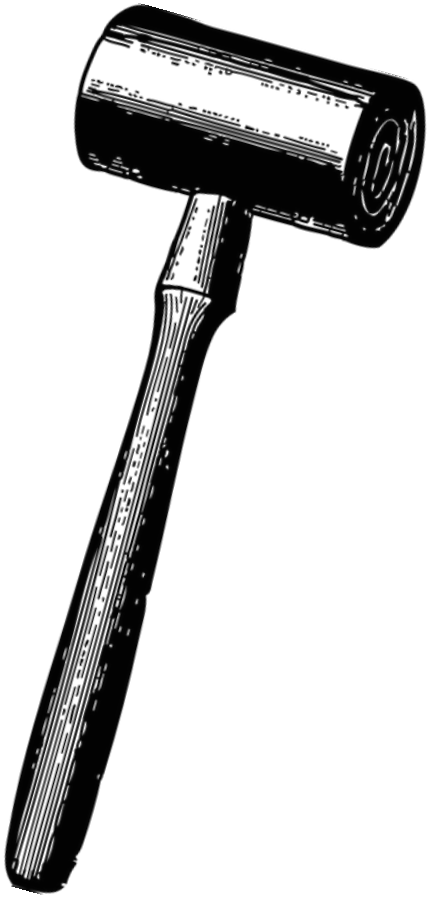
Conditional
Probability changes each time

Independent
Probability stays the same each time

Review the rules



1 egg at a time
- cannot shake
- no "put backs"

4 raw
8 boiled

First person to 2 eggs loses

Guest always goes first

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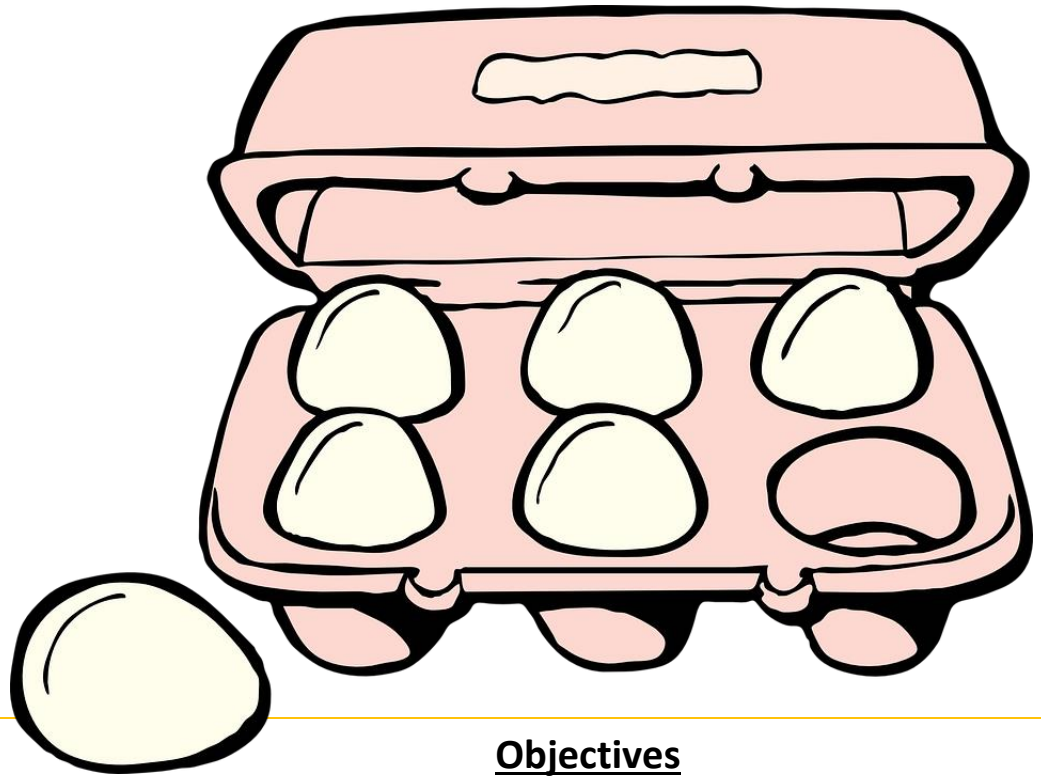
Let's Play

8



Ben 23
Syv 35
Xander 81
Mason 70
Malyan 27
Jeaette 57
Katie 29
16
Andrew 48

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Brain Break

Line - up

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Gather Data

Last name
First
guest

Raw = Gray
Boiled = White

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Combine & Analyze Data

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Law of Large Numbers

flip a coin -> theoretical P(T) = 50%

H H H H

10 coins all H

100 coins -> 50 should

1000

bigger sample, the closer to what "should be"

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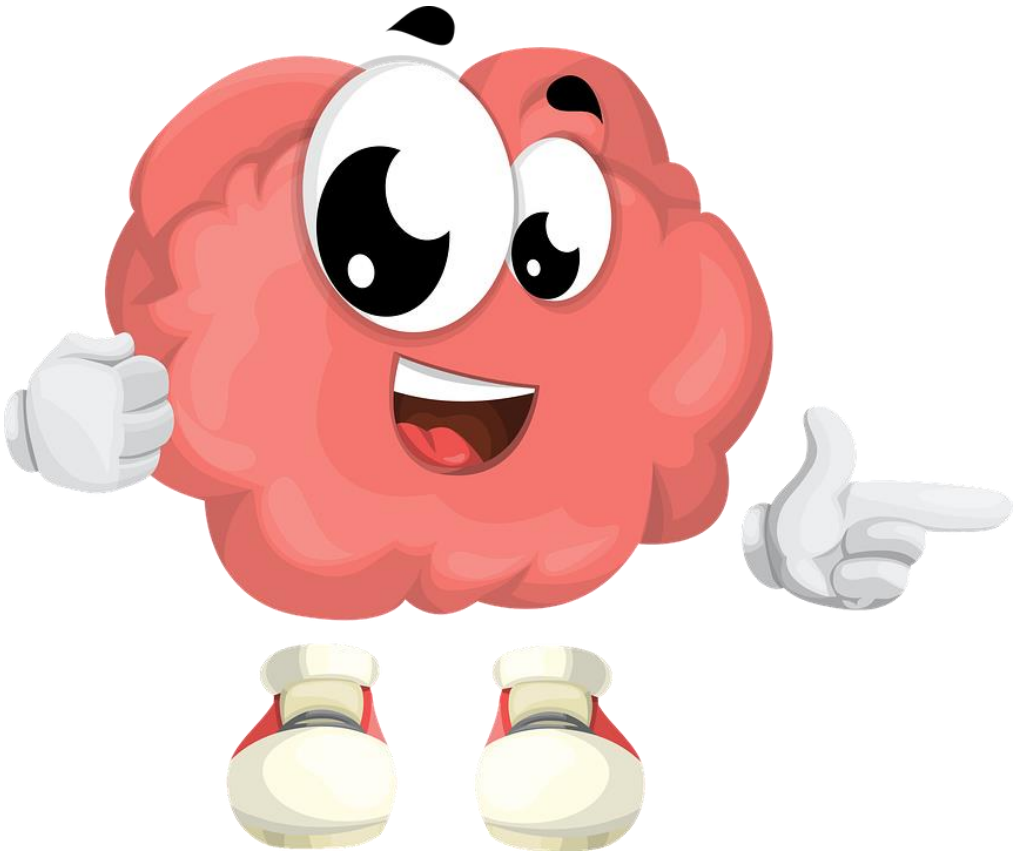
BRAIN BREAK



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Part II

Extra Credit

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