## Mondayy December 3, 2018

-Warm-up

$$
\frac{32}{61}+\frac{66}{81}-\frac{30}{81}
$$

- In 2010 the Tampa Bay Rays had a promotion at home games where each fan won a free taco if the team scored 7 or more runs. Here is a two-way table showing the relationship between taco-status and the outcome of the games.
- $P($ Taco and $W$ Win $)=\frac{3}{81}$
- $P($ Taco $)=\frac{15}{81}$
- $P($ Loss or No Taco $)=\frac{68}{81} \quad \frac{68}{81}$
- $P($ Taco $\mid$ Win $)=\frac{\beta}{49}$
-The Monty Hall problem

|  | WIN | LOSS | TOTAL |
| :--- | :---: | :---: | :---: |
| Taco | 13 | 2 | 15 |
| No Taco | 36 | 30 | 66 |
| Total | 49 | 32 | 81 |

- If you know about this problem - please DO NOT talk about it yet :)


## (objectives

-Content Objectiver I will be able to explain the Monty Mal problen ఇnd the mathematics behind ito -Social Objectiver |l will not rgive (2w2y ( solwtion ifl - see ita

- Language obpecctiver l] will explain Hin writing the feesoning behind the Monty Mall problem.

- Introduction
- Mythbusters Season 11 Episode 7 "Wheel of Mythfortune"
-Video \#1
- Write if you would switch or stay and explain why you would make that decision.
- Video \#2

- Summarize the experiment. Was it a valid experiment? Why or why not?
-Video \#3
- Summarize the argument. Do you agree? Why/why not?



## Bic iceas

## Simple probability

## Gonditional probability

## Law of lares

 numbers


## HOMCWONR

## Pages 340 (33-36)

