Tuesday, January 8, 2019

Warm-up

- An American roulette wheel has 38 slots with numbers 1 through 36, 0, and 00. Of the numbered slots, 18 are red, 18 are black, and 2 – the 0 and 00 – are green. When the wheel is spun, a metal ball is dropped onto the middle of the wheel. If the wheel is balanced, the ball is likely to settle in any of the numbered slots.

 - P(red) = $\frac{18}{38} \approx 0.473$ P(3 odds in a row) = $(\frac{18}{38})^3 \approx 0.706$ P(the first black is the 4th spin) = $(\frac{20}{38})^2 (\frac{20}{38})^2 (\frac{20}{38})^2 (\frac{20}{38})^2 (\frac{20}{38})^2 = 0.069$ P(at least one red in 5 spins) = $7 P(n0 R_{4}d_{5}) = 1 (\frac{20}{38})^2 \approx 0.959$

Objectives

- Talk about Finals
- Greedy Pig
- Intro the next chapter

Content: I will experiment with random variables and expected value.

Social: I will participate in class activities.

Language: I will listen for and write down key vocabulary: expected value, random variable, and the law of large numbers.



Objectives



- Content Objective: I will experiment with random variables and expected value.
- Social Objective: I will participate in class activities.
- Language Objective: I will listen for and write down key vocabulary: expected value, random variable, and the law of large numbers.

Final Exam



Fantasy Football



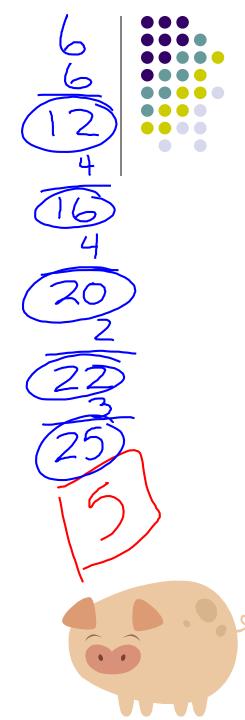
Greedy Pig

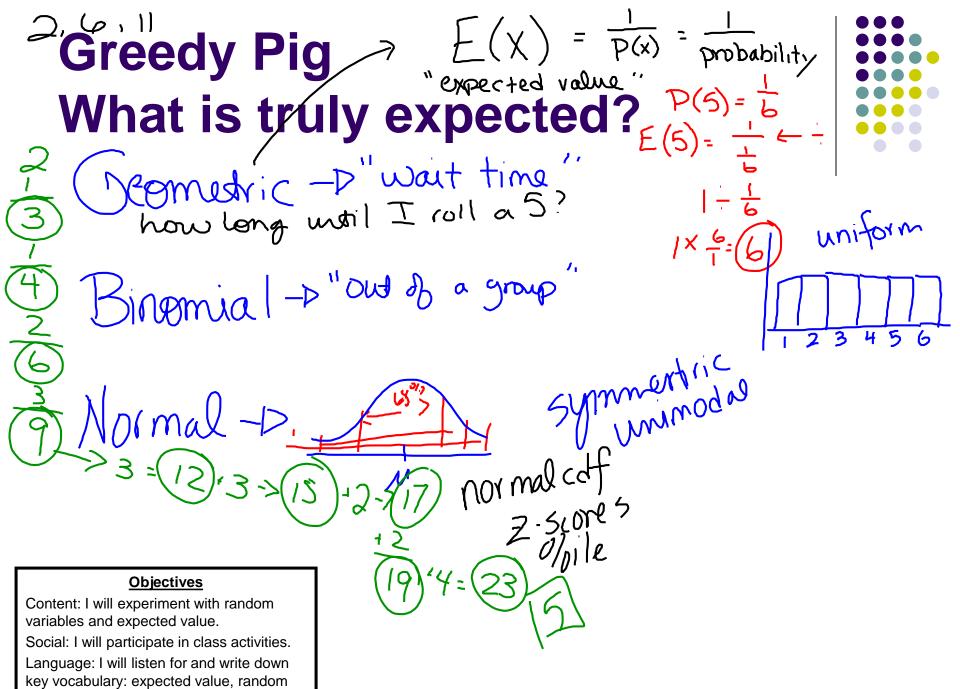
- Greedy Pig (whole class version)
 - Everyone stand up
 - When I roll a die, you get that many points
 - When you want to be done, sit down
 - If I roll a 5 before you sit down, you lose all of your points

Objectives

Content: I will experiment with random variables and expected value.

Social: I will participate in class activities. Language: I will listen for and write down key vocabulary: expected value, random variable, and the law of large numbers.





variable, and the law of large numbers.



Preview the Next Unit

Homework



 5 big ideas (formulas, vocabulary, concepts) from chapter 16