# Wednesday, October 24, 2018

- Warm-up
  - In a certain archery competition, each player continues to shoot until he or she misses the center of the target twice. Quinn is one of the archers in this competition. Based on past experience, she has a 0.6 probability of hitting the center of the target on each shot. Describe a simulation to determine how many shots she will take in a competition.
- Quizzes
- ACYI Survey
- Jelly Blubbers

# Objectives

- Content Objective: I will work with various types of samples and explain the difference between them.
- Social Objective: I will participate in the class activities.
- Language Objective: I will clarify the meanings of **SRS**, **STRATIFIED**, **SYSTEMATIC**, and **CLUSTER** sampling

# Simulation

We are simulating shots → using random number table, 1-6 = made shot
7-9+0 = missed shot

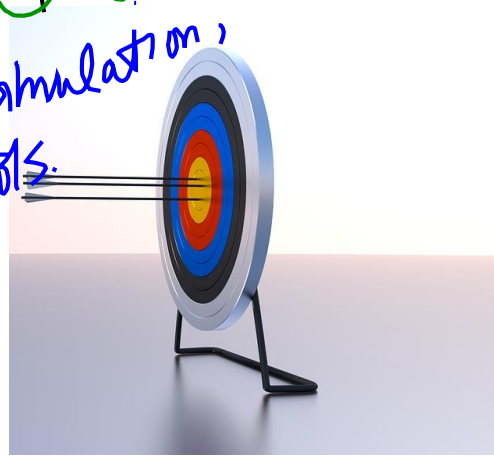
- **In a certain archery competition, each player continue to shoot until he or she misses the center of the target twice. Quinn is one of the archers in this competition. Based on past experience, she has a 0.6 probability of hitting the center of the target on each shot. Describe a simulation to determine how many shots she will take in a competition.**
  - **Would a coin toss simulate it well?**
  - **What about a dice roll?**
  - **What is the minimum number of shots?**
  - **What is the maximum number of shots**

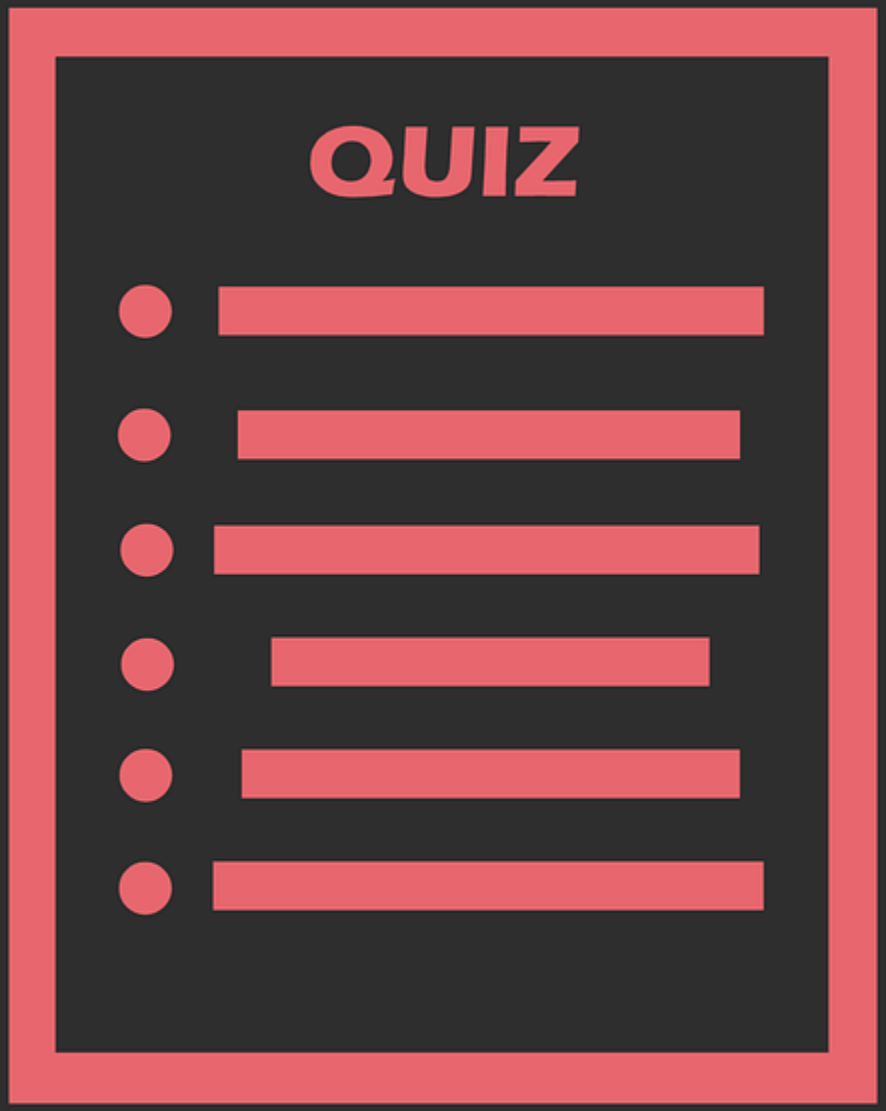
Continue to generate numbers until we find 2 "missed shots" (7-9 or 0) Count how many numbers (or shots) she taken.

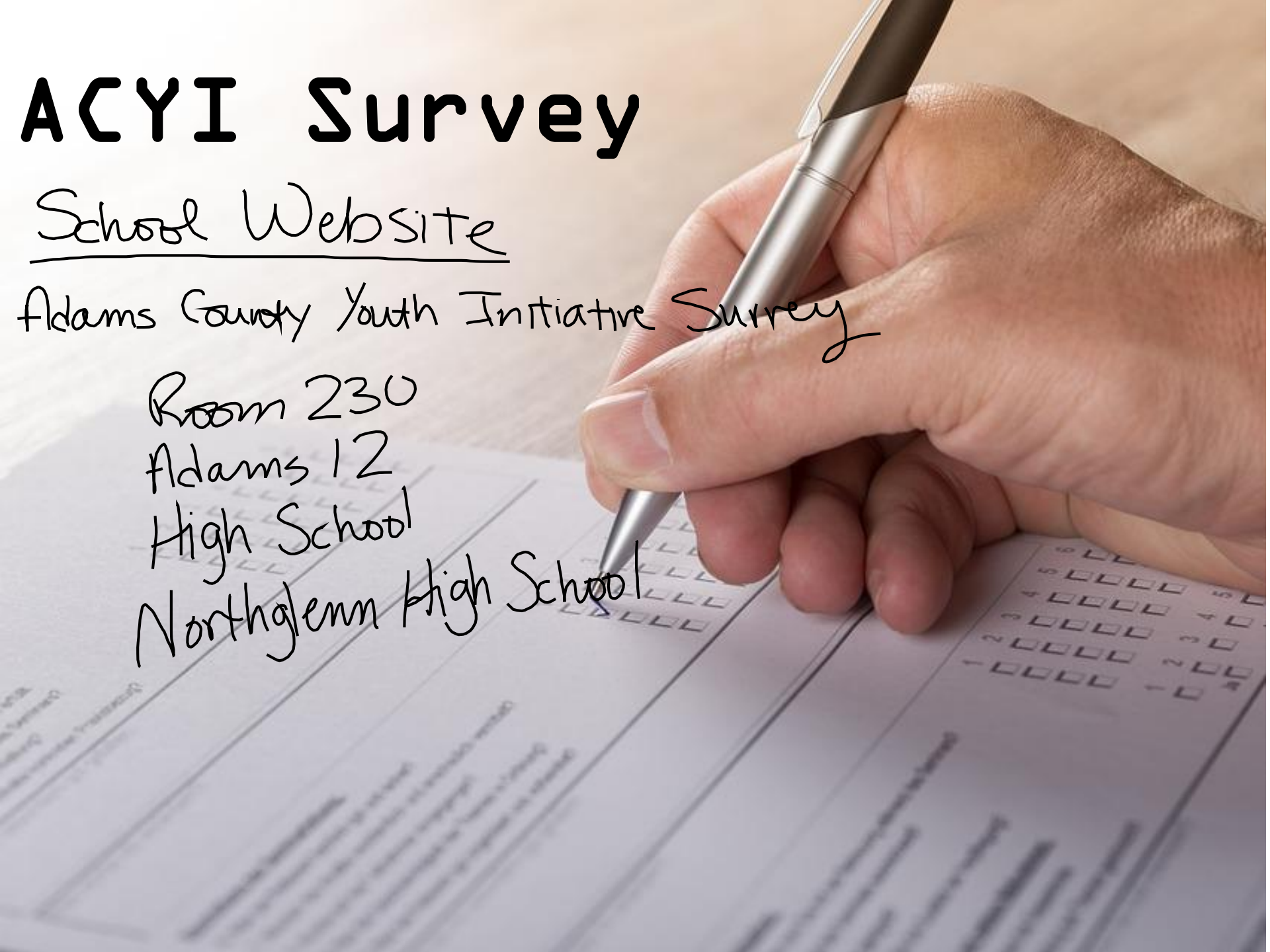
2 4 8 2 9 = 5

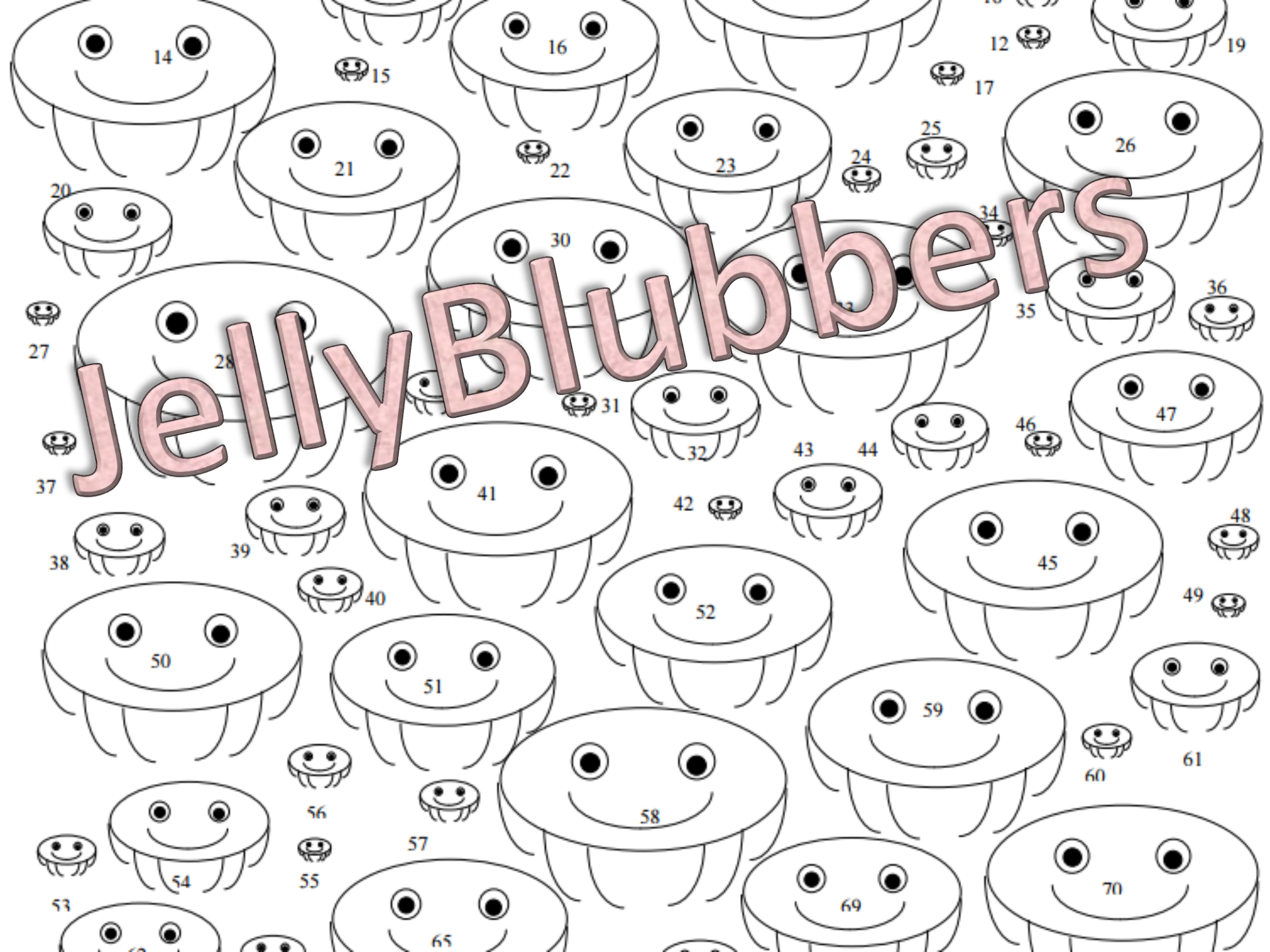
2 1 9 3 3 6 2 9 = 8

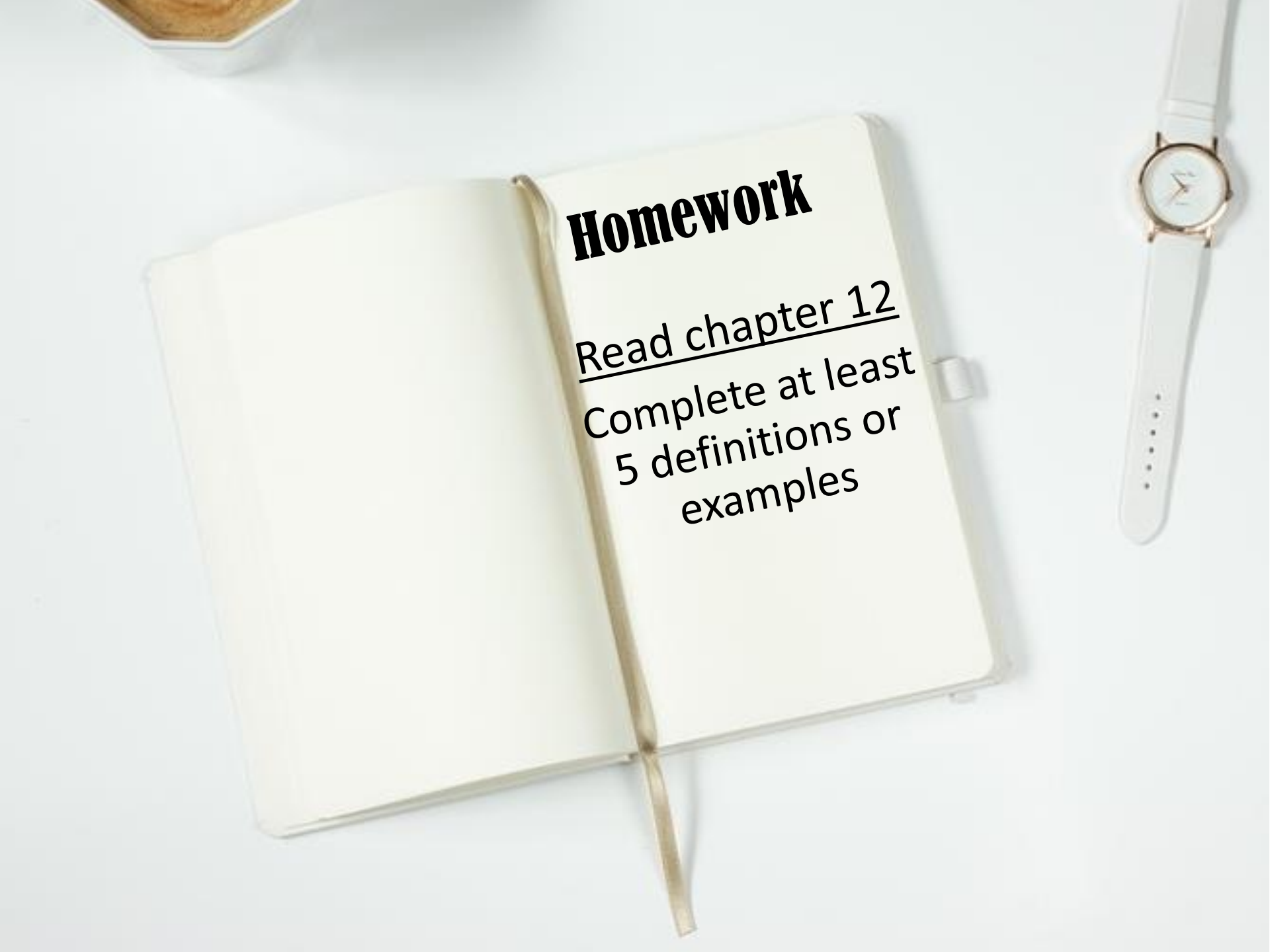
According to my simulation, she will take 6.5 shots.




QUIZ


ACYI Survey
School Website
Adams County Youth Initiative Survey
Room 230
Adams 12
High School
Northglenn High School


JellyBlubbers


Homework
Read chapter 12
Complete at least 5 definitions or examples