## Suppose that a married couple will have 3 children and suppose that having a boy or girl is equally likely each time. Consider the following events.

A: At least 2 consecutive children are of the same gender.

B: Exactly 2 consecutive children are of the same gender.

C: No 2 consecutive children are of the same gender.

For each pair of events, determine if the events are independent.

A and B

A and C

B and C

Gamestop hired a consultant That surveyed 535 people who played four particular video games.

The survey indicated the following

- 35% liked the game Super Squish Ball Hamster Extreme Zero.
- 61% liked the game Flabby Birds: Hit the Gym!
- 18% liked the game Learning is Fun! <u>AND</u> Eight-Ball Pool (Get a Life Edition)
- 58% Liked the game Learning is Fun!

Assume all "liking" of each game is INDEPENDENT and answer the questions below. State your answers as percents and show ALL work!

- 1. What is the Probability someone liked **Super Squish Ball Hamster Extreme Zero** <u>AND</u> **Flabby Birds: Hit the Gym!**
- 2. What is the Probability someone liked Eight-Ball Pool (Get a Life Edition)?

3. What is the Probability someone liked Learning is Fun! OR Eight-Ball Pool (Get a Life Edition)?

