Warm Up                1/10/23

Look at the graphs of the people in your group.  Decide which graph is closest to theoretical probability.  Explain why you chose that particular graph.

**23.1**

**Fair events**-events where the probability of the outcomes is even

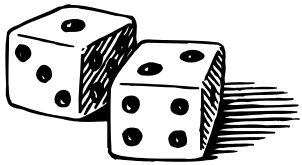    Ex: rolling six-sided fair die

        tossing a fair coin

        spinning spinner with equal parts

**Fair game**-a game where all players have an equal chance of winning

# Is It a Fair Game?

The concept of a fair game implies that each player has an equal chance of winning the game. Tossing a coin is considered a fair game, since there is an equal chance that a head or a tail will come up. This doesn't guarantee that in tossing a coin 10 times, 5 times a head will appear and 5 times a tail.

## The Addition Game
If the answer is odd, player #1 gets a point.
If the answer is even, player #2 gets a point.
Roll the dice 36 times.

Predict whether or not you think this game is fair. Explain your prediction.

$$P(\text{odd}) = \qquad P(\text{even}) =$$