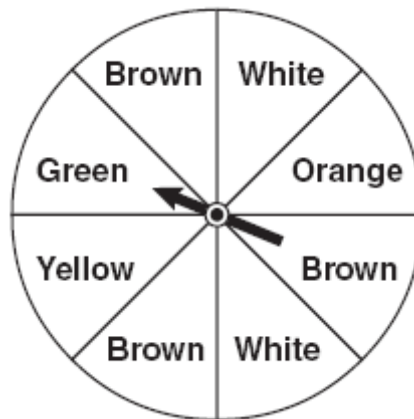**Name:** _____

Independent Events

1) Mr. Yee has 10 boys and 15 girls in his mathematics class. If he chooses two students at random to work on the blackboard, what is the probability that both students chosen are girls?

2) Keisha is playing a game using a wheel divided into eight equal sectors, as shown in the diagram below. Each time the spinner lands on orange, she will win a prize.

If Keisha spins this wheel twice, what is the probability she will win a prize on *both* spins?

3) The probability that Jana's bus is on time is $\frac{2}{3}$, and the probability that Mr. Yum is driving the bus is $\frac{4}{5}$. What is the probability that on any given day Jana's bus is on time and Mr. Yum is the driver?

4) Selena and Tracey play on a softball team. Selena has 8 hits out of 20 times at bat, and Tracey has 6 hits out of 16 times at bat. Based on their past performance, what is the probability that both girls will get a hit next time at bat?