

NAME: _____

1. 080832ia, P.I. A.S.23

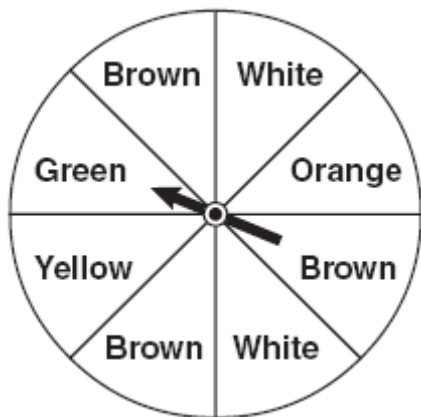
Brianna is using the two spinners shown below to play her new board game. She spins the arrow on each spinner once. Brianna uses the first spinner to determine how many spaces to move. She uses the second spinner to determine whether her move from the first spinner will be forward or backward.



Find the probability that Brianna will move *fewer than* four spaces and *backward*.

2. 010928ia, P.I. A.S.23

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?

- [A] $\frac{1}{16}$ [B] $\frac{1}{64}$ [C] $\frac{1}{4}$ [D] $\frac{1}{56}$

3. 060821a, P.I. A.S.23

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

- [A] $\frac{10}{12}$ [B] $\frac{2}{15}$ [C] $\frac{8}{15}$ [D] $\frac{6}{8}$

4. 060529a, P.I. A.S.23

The probability that the Cubs win their first game is $\frac{1}{3}$. The probability that the Cubs win their second game is $\frac{3}{7}$. What is the probability that the Cubs win both games?

- [A] $\frac{16}{21}$ [B] $\frac{2}{5}$ [C] $\frac{1}{7}$ [D] $\frac{6}{7}$

5. 080430a, P.I. A.S.23

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?

- [A] $\frac{14}{36}$ [B] $\frac{31}{40}$ [C] 1 [D] $\frac{48}{320}$

[2] $\frac{3}{8}$ or 0.375, and appropriate work is shown.

[1] Appropriate work is shown, but the answer is rounded.

or [1] Appropriate work is shown, but one computational error is made.

or [1] Appropriate work is shown, but one conceptual error is made.

or [1] $\frac{3}{8}$, but no work is shown.

[0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an obviously

[1] incorrect procedure.

[2] B

[3] C

[4] C

[5] D