

Solutions

Algebra II Journal Module 6: Conditional Probability Prize Winner, Part 1

This journal belongs to:

Module 6: Conditional Probability

Algebra II Journal: Reflection 1

Respond to the following reflection questions and submit to your teacher.

Determine the probability of winning a large prize.

Answer:

$$\frac{12}{20} \cdot \frac{1}{19} = 0.032$$

Determine the probability of winning a large prize, if the popped pink balloon is replaced.

Answer:

 $\frac{12}{20} \cdot \frac{1}{20} = 0.03$

Compare the two probabilities above. Which provides the gamer with a better chance of winning a large prize?

Answer:

The gamer has a better chance if the pink balloon is not replaced.

Module 6: Conditional Probability

Algebra II Journal: Reflection 2

Respond to the following reflection question and submit to your teacher.

Design a game that Khalid, Justyce, Andrew, Marissa and Allyson can use at the community fair.

Design the game such that the gamer must complete two dependent events in order to win a prize. Justify that the events are dependent by calculating at least two different conditional probabilities.

Answer:

Answers will vary depending on the game students design.