

Name _____

Independent/Dependent and Mutually Exclusive events. Optional HW Due 8:10 AM Friday.

Show your work/Explain your thinking.

Geometry Use the grid for Exercises 1-4.

On the grid at right, one small square represents 1% probability.

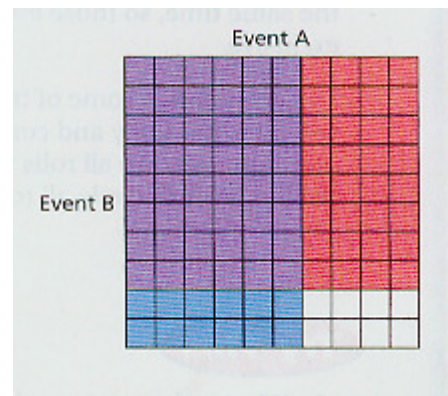
The pink area represents the probability that event A occurs.

The blue area represents the probability that event B occurs.

The area where the two colors overlap represents the probability that both events occur.

Use the grid to find each probability.

1. Event A occurs.
2. Event B occurs.
3. Event A occurs AND event B occurs.
4. Neither event A nor event B occurs.



5.

Yahtzee is a game that involves rolling five dice. On his or her turn, a player can roll up to three times to try to score points in various categories. Rolling a "Yahtzee" means rolling five of a kind, or five of the same number.

a. Juan has rolled twice and has three 5's showing. He rolls the remaining two dice. What is the probability that both dice will land showing 5?

b. Shauna has two 3's showing. She has one more roll with the remaining three dice. What is the probability that all three dice will land showing 3?

c. Mike rolls all five number cubes and all of them land showing 6. What is the probability of getting five 6's in one roll?