

Math 101 – Exam 2/3

Name

Key

Part 1: Short answer (2 pts. each) - Write the appropriate name, phrase, or answer to the question.

People – last names are necessary and sufficient.

1. He developed probability principles in response to a question about gambling. A triangle whose entries are combinations is named for him.

Pascal

2. His famous theorem remained an unproven mystery for over 350 years. His discussion with the mathematician above spawned the field of probability.

Fermat

3. She studied Huntington's Disease and was instrumental in the discovery of the gene responsible for it.

Wexler

4. He studied pea plants in a monastery and observed the principles of dominance and recessiveness in genetics.

Mendel

5. He constructed a square which formalized statistical calculations in genetics.

Punnett

Vocabulary terms & questions

6. One of the important concepts of this field of mathematics is finding the area under a curve.

Calculus

7. In a coin-flipping experiment, some individuals obtained 2 heads out of 10 flips. However, whole class results found the fraction of heads to be $156/300$, or 52%, closer to the expected 50%. This is an example of what law?

Large numbers

For questions 8-10, a standard 6-sided die is rolled to determine the probability of getting an odd number.

8. What is the experiment?

rolling a die

9. What is the event?

getting an odd #

10. What is the sample space?

 $\{1, 2, 3, 4, 5, 6\}$

