Mathematics Class Slides

Bronx Early College Academy

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12 November 2019

3.1 Introduction to probability 13 Nov

3.2 Probability as fractions 14 Nov

3.3 Sample spaces & Venn diagrams 18 Nov

3.4 Set operations on Venn diagrams 2 Dec

3.5 Using tree diagrams 4 Dec

GQ: How do we use mathematics to explore a topic?

CCSS: MP5 attend to precision

3.1 Wednesday 13 Nov

Do Now Skills check page 205

1. Treat probabilities as fractions between zero and one
2. Use tables to organize data

Afterschool today; parent conferences tomorrow 4:00-7:00, Friday

Lesson: theoretical and experimental probabilities, notation

Homework: Read and evaluate sample exploration paper according to criteria pp. 737-740

GQ: How do we quantify uncertainty?

CCSS: MP5 attend to precision

3.2 Thursday 14 Nov

2.16 Do Now: Dice probability

1. probability tables (pdf)

Scoring an exploration paper
Lesson: Probability calculations

Homework: Textbook exercises 5A p. 210-211; exploration paper

GQ: How do we organize the event space for analysis?

CCSS: MP5 attend to precision

3.3 Monday 18 Nov

2.16 Do Now: Express each probability as a fraction

1. Rolling a twelve with two dice
2. Drawing an ace from a deck of cards
3. Having a birthday on a weekday
4. Two students in a class of 30 have the same birthday

Review homework problems 5A p. 211
Lesson: Venn diagrams and sample spaces

Homework: Textbook exercises 5B p. 215; exploration paper

GQ: How do we combine events on a Venn diagram?

CCSS: MP5 attend to precision 3.4 Monday 2 Dec

Do Now: Using Venn diagrams to organize a situation

1. Listing sets
2. The universal set U
3. Items in, or not in, multiple sets

Review homework problems 5B p. 211
Example email conventions
Lesson: 5.3 Set operations & Venn diagrams
Homework: Textbook exercises 5C p. 220
Exploration paper due Friday

GQ: How do we diagram a situation with a tree?

CCSS: MP5 attend to precision 3.5 Wednesday 4 Dec

Do Now: Conditional probablity from a matrix

1. What is the probability of each event overall?
2. What is the probability conditional on each subset?

Review homework problems 5C p. 220
Lesson: 5.4 Probability and tree diagrams
Homework: Textbook exercises 5D p. 223-4
Exploration paper due Friday