

Mathematics Class Slides

Bronx Early College Academy

Chris Huson

30 January - 9 February 2019

6.1 Probability definitions, Wednesday 30 January

6.2 Venn diagrams, Thursday 31 January

6.3 Addition rule of probabilities, Monday 4 February

6.4 Probability definitions, Wednesday 6 February

6.5 Probability definitions, Thursday 7 February

6.6 Sample space diagrams, Monday 11 February

6.7 Sample space diagrams, Tuesday 12 February

6.8 Independence, Wednesday 13 February

6.9 Conditional probability, Thursday 14 February

GQ: How do we talk about probability?

CCSS: HSF.IF.C.7 Analyze functions

6.1 Wednesday 30 January

Do Now: Skills check p. 62 #1-2

Lesson: History of the study of games of chance, sample space, frequency

Homework: Exercises 3A p. 67-68

GQ: How do we notate sample spaces with Venn diagrams?

CCSS: HSF.IF.C.7 Analyze functions

6.2 Thursday 31 January

Do Now: Probability handout

Lesson: Sets, complements, union, intersection, empty set

Homework: Exercises 3B p. 71-72

GQ: How do we add the probabilities of multiple events?

CCSS: HSF.IF.C.7 Analyze functions

6.3 Monday 4 February

Do Now: Draw a Venn diagram of these 110 students:

- ▶ 25 students took physics
- ▶ 45 students took biology
- ▶ 48 students took mathematics
- ▶ 10 students took physics and mathematics
- ▶ 8 students took biology and mathematics
- ▶ 6 students took biology and physics
- ▶ 5 students took all three subjects

How many took biology, but neither physics nor mathematics?

How many students did not take any of the three subjects?

Lesson: The addition rule, probability

Homework: Exercises 3C p. 74-75 Unit test Thursday

GQ: How do we calculate probability?

CCSS: HSF.IF.C.7 Analyze functions

6.4 Wednesday 6 February

Do Now: Pretest review packet

Lesson: Review for unit test

Homework: study for **test tomorrow**. Arrive at 8:00 sharp!

GQ: How do we calculate probability?

CCSS: HSF.IF.C.7 Analyze functions

6.5 Thursday 7 February

Assessment: Probability unit test

Homework: Handout practice problems

GQ: How do we add the probabilities of multiple events?

CCSS: HSF.IF.C.7 Analyze functions

6.6 Monday 11 February

Do Now: A six-sided, fair die is rolled 100 times, with x representing each value rolled. Draw a Venn diagram to represent the 100 events.

- ▶ $\{x \text{ is an even number} \}$ was rolled 57 times
- ▶ $\{x : x < 4\}$ occurred 44 times
- ▶ $\{x : x = 2\}$ occurred 15 times

How many times was $x = 5$ rolled?

Test question review

Lesson: Mutually exclusive sets, sample space diagrams

Homework: Exercises 3D p. 76-77, 3E #1-2 p. 79

GQ: How do we add the probabilities of multiple events?

CCSS: HSF.IF.C.7 Analyze functions

6.7 Tuesday 12 February

Deltamath probability practice

Homework: Complete Deltamath exercises

GQ: How do we multiply the probabilities of multiple events?

CCSS: HSF.IF.C.7 Analyze functions

6.8 Wednesday 13 February

Do Now: 3E p. 80

- ▶ medium: exercise #3
- ▶ spicy: exercise #5

Test question review

Lesson: Independence and multiplying probabilities

Homework: Exercises 3F p. 82-84

GQ: How do we calculate probability given another condition?

CCSS: HSF.IF.C.7 Analyze functions

6.9 Thursday 14 February

Do Now: Read the Monty Hall problem, p. 88. Be prepared to discuss

Test question review

Lesson: Conditional probability

Homework: Exercises 3G p. 86-888