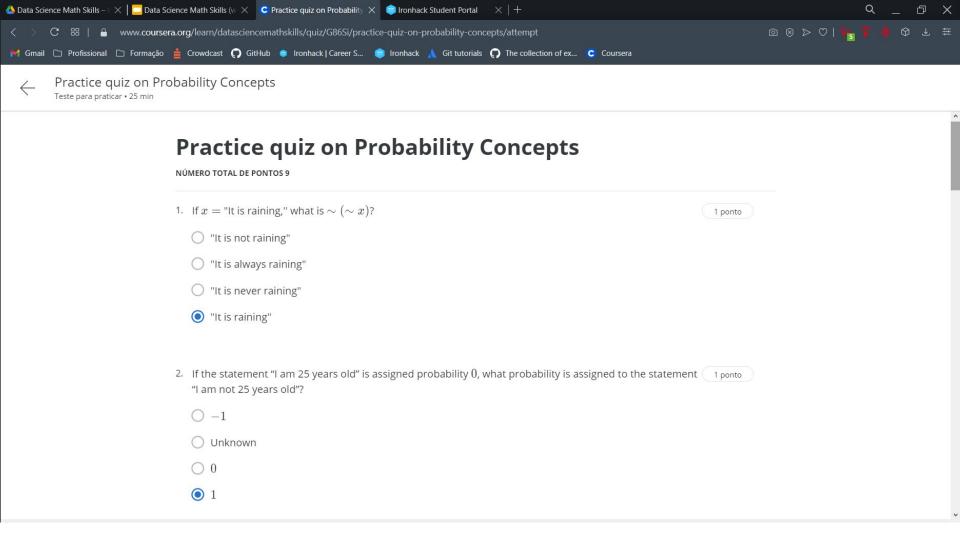
# Data Science Math Skills

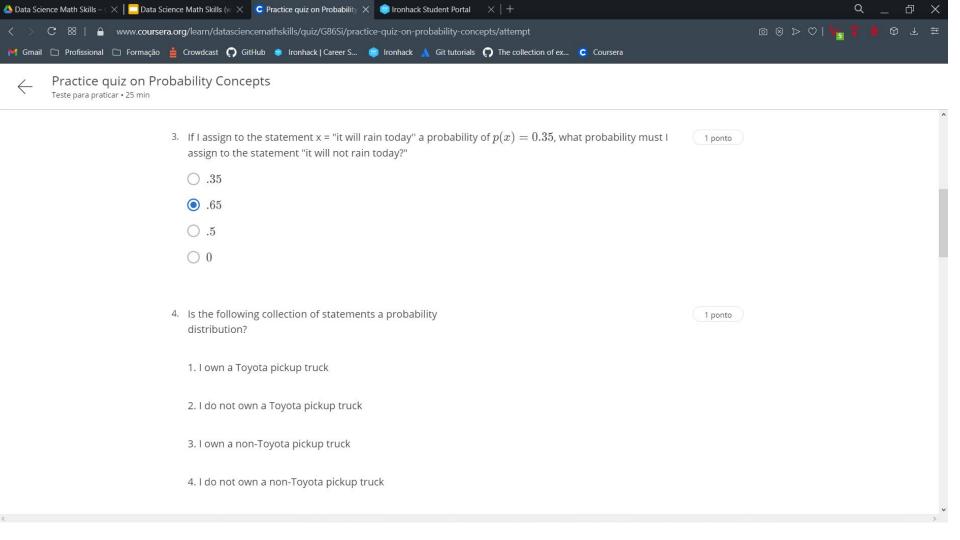
Here's the complete list of exercises you need to deliver:

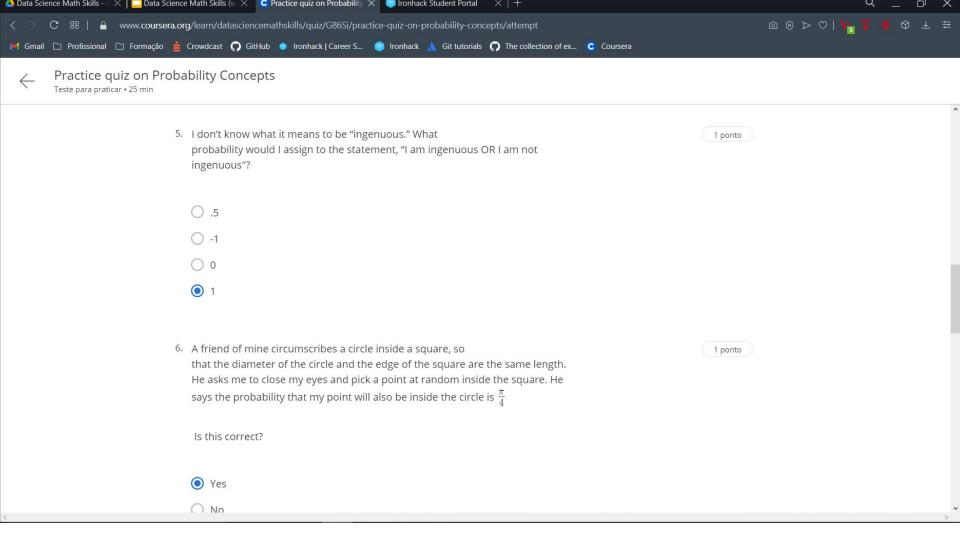
## Week 4

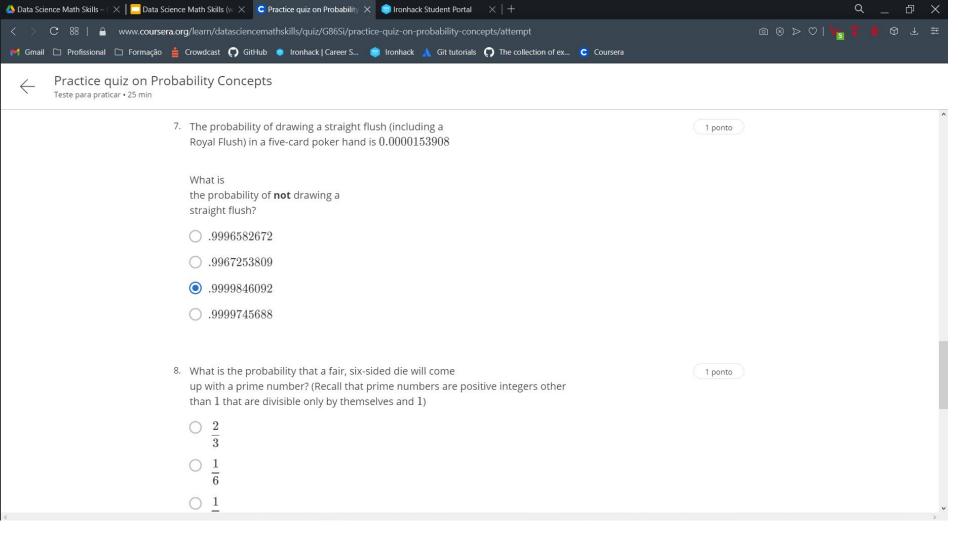
- \* Basic Probability Definitions Practice quiz on Probability Concepts (9 questions)
- \* Problem Solving Methods Practice quiz on Problem Solving (9 questions)
- \* Applying Bayes Theorem and the Binomial Theorem Practice quiz on Bayes Theorem and the Binomial Theorem (9 questions)
- \* Applying Bayes Theorem and the Binomial Theorem Probability (basic and Intermediate) Graded Quiz (12 questions)

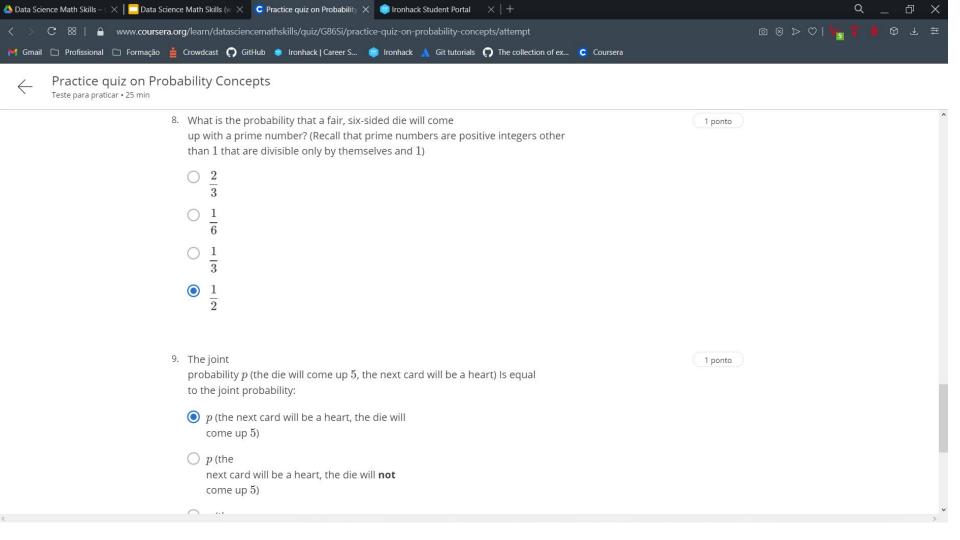
**Basic Probability Definitions** 

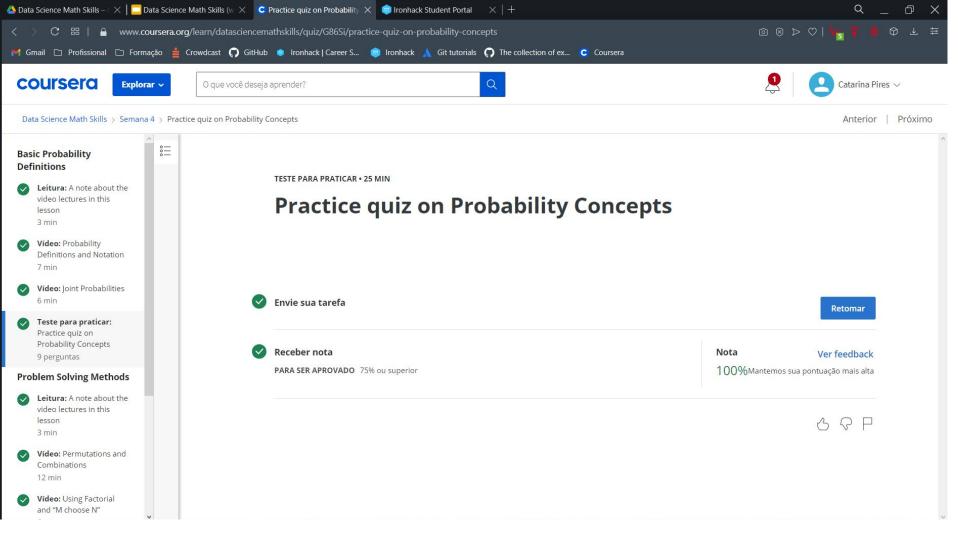




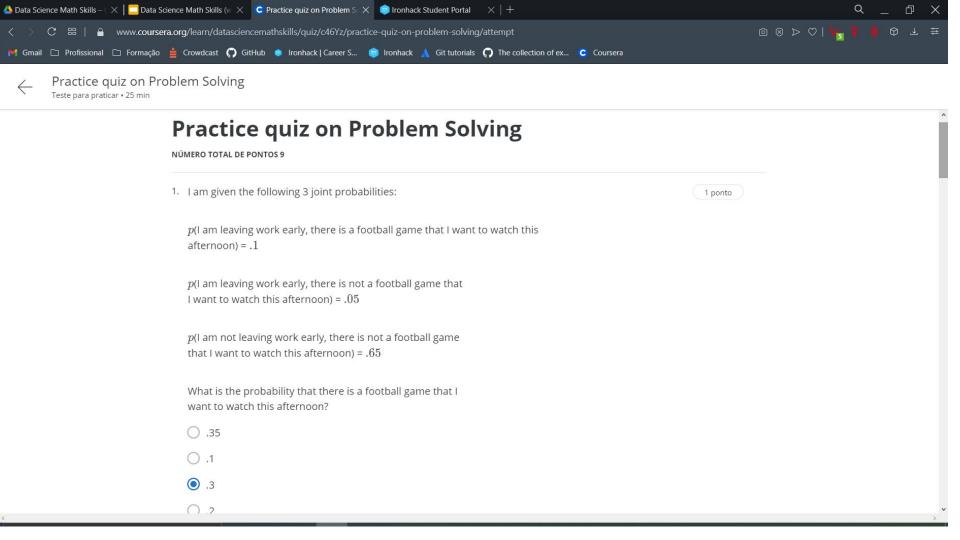


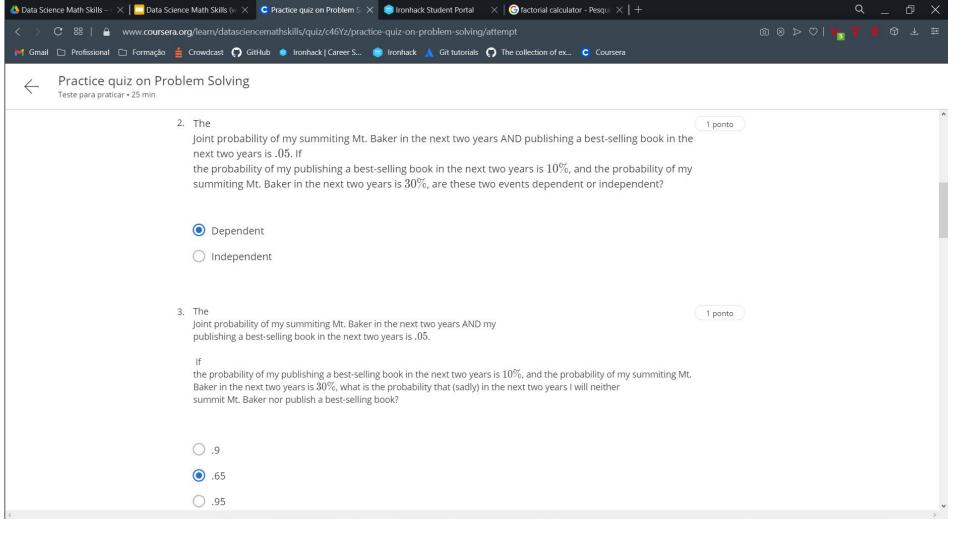


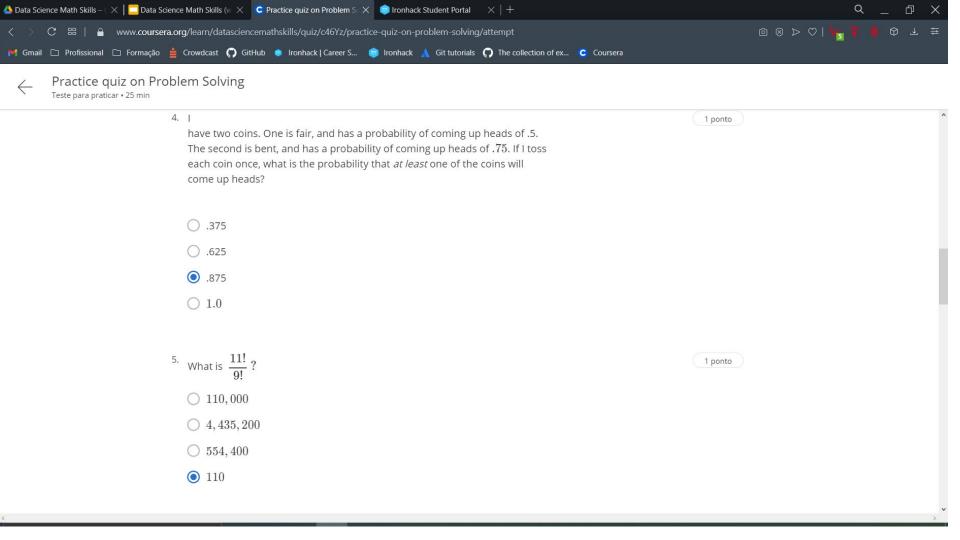


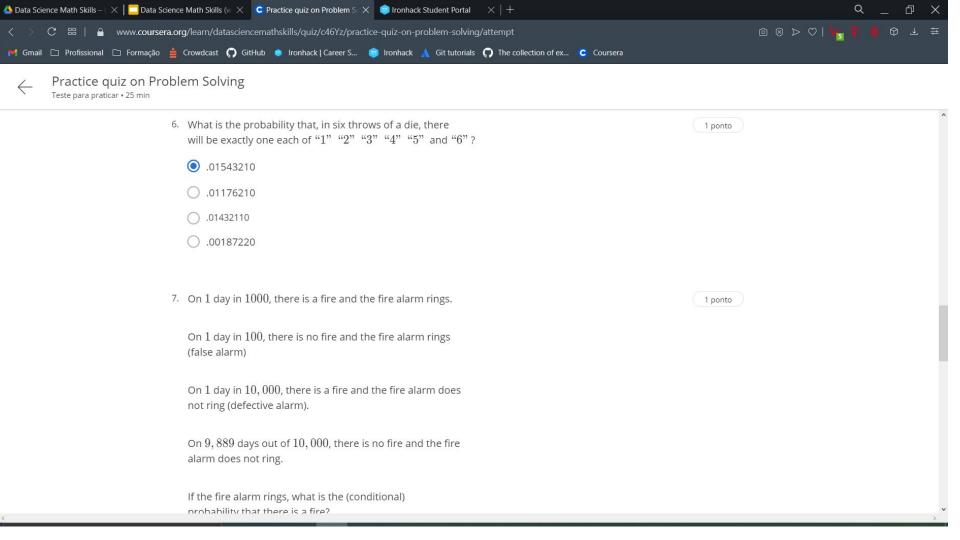


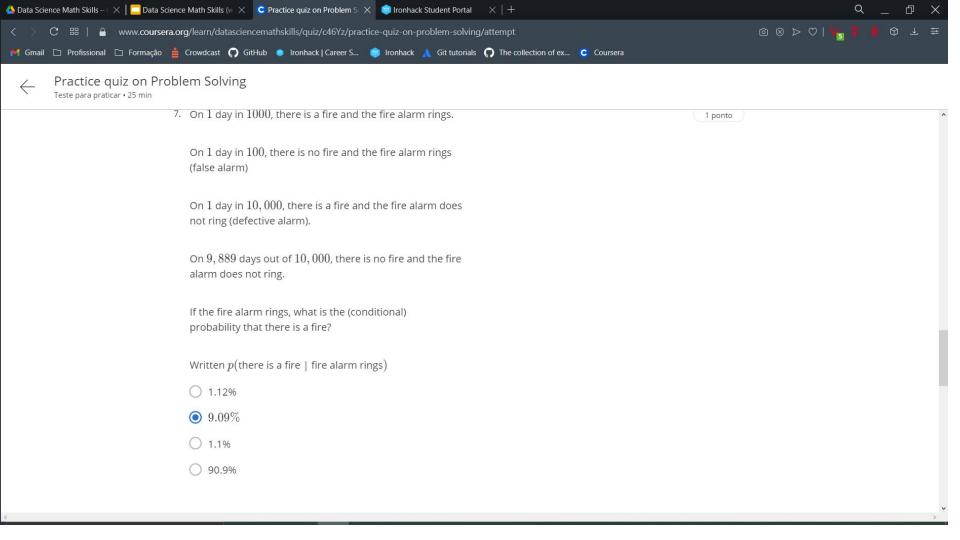
**Problem Solving Methods** 

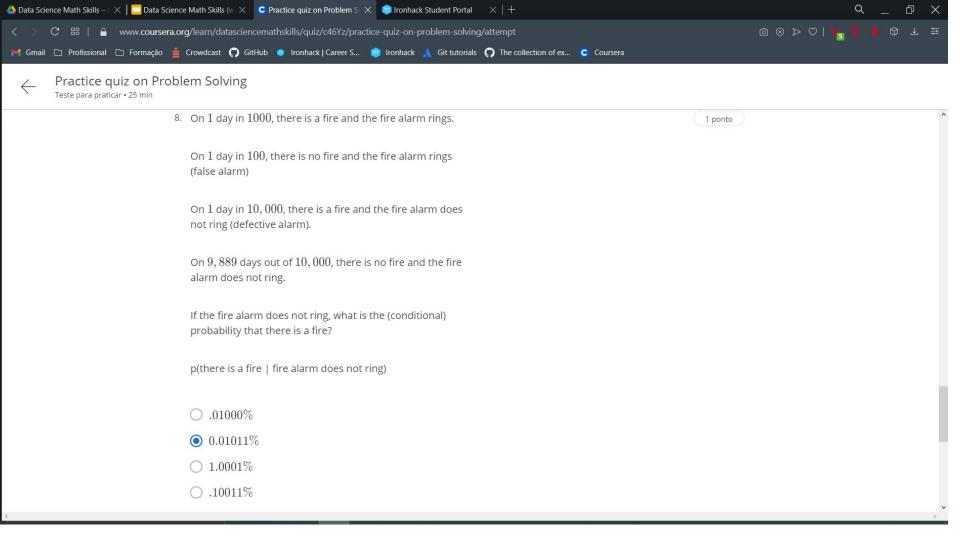


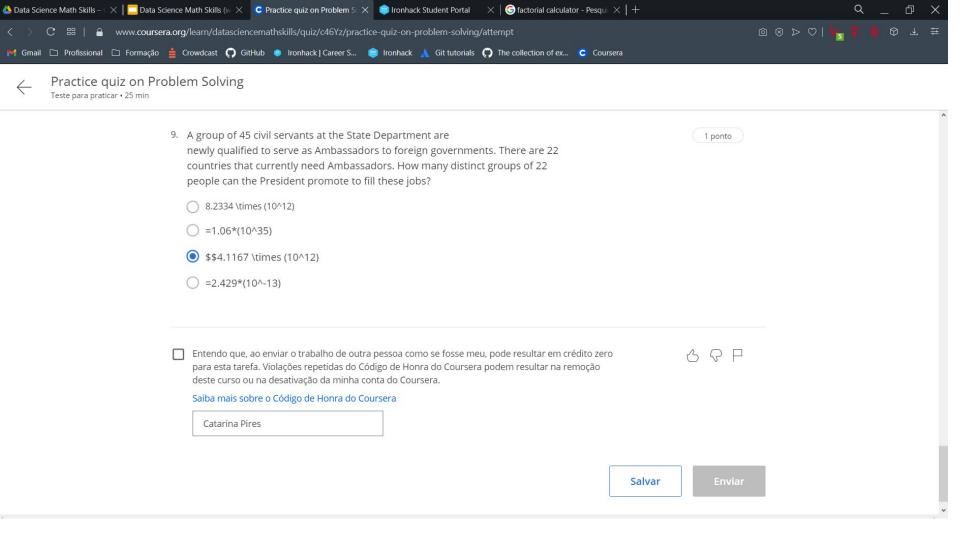






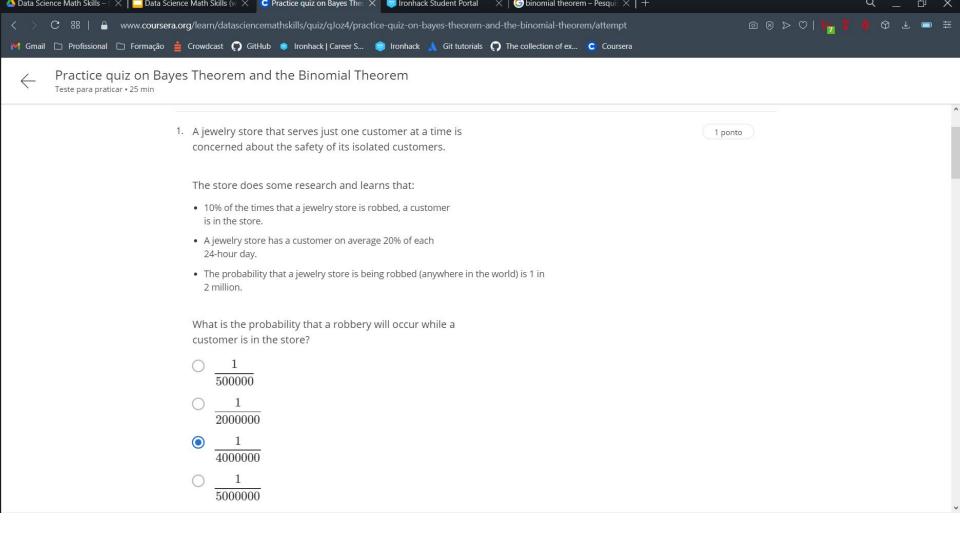


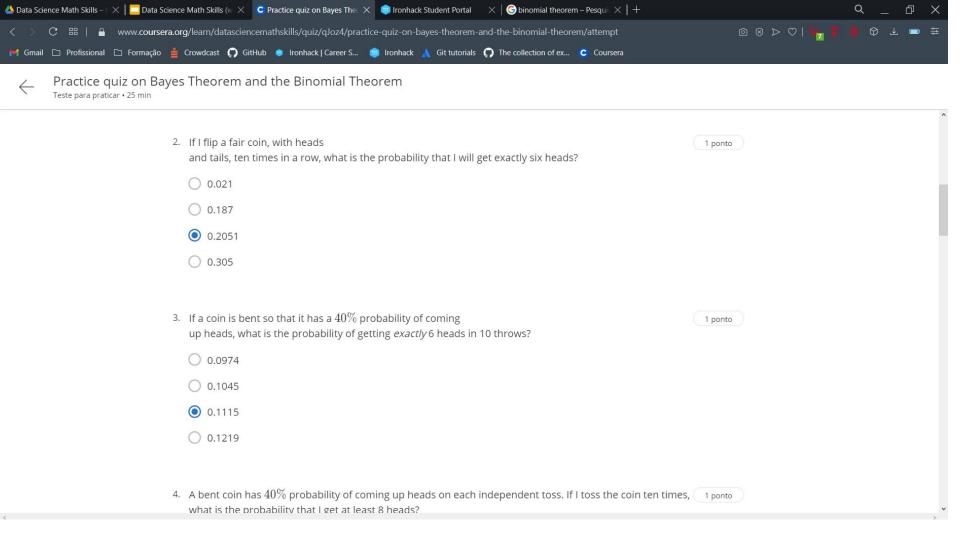


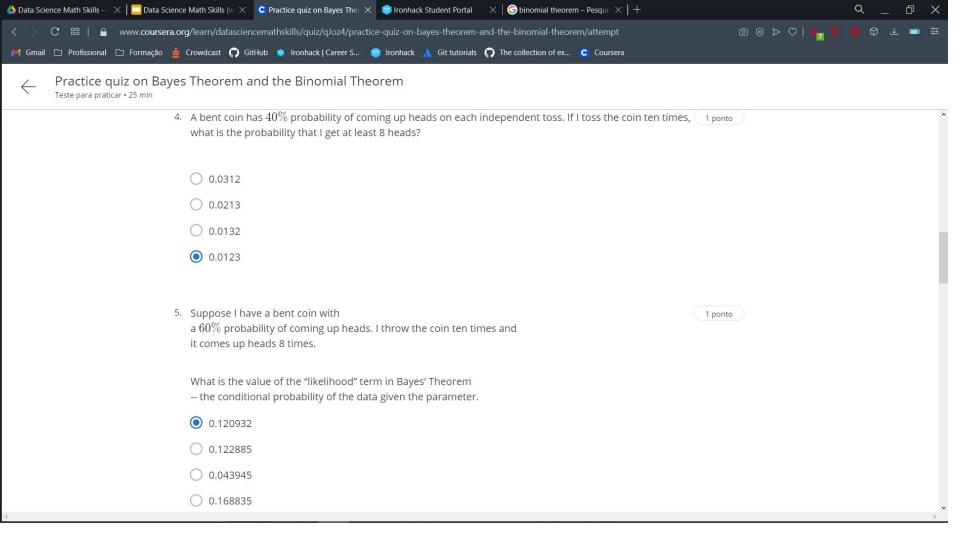


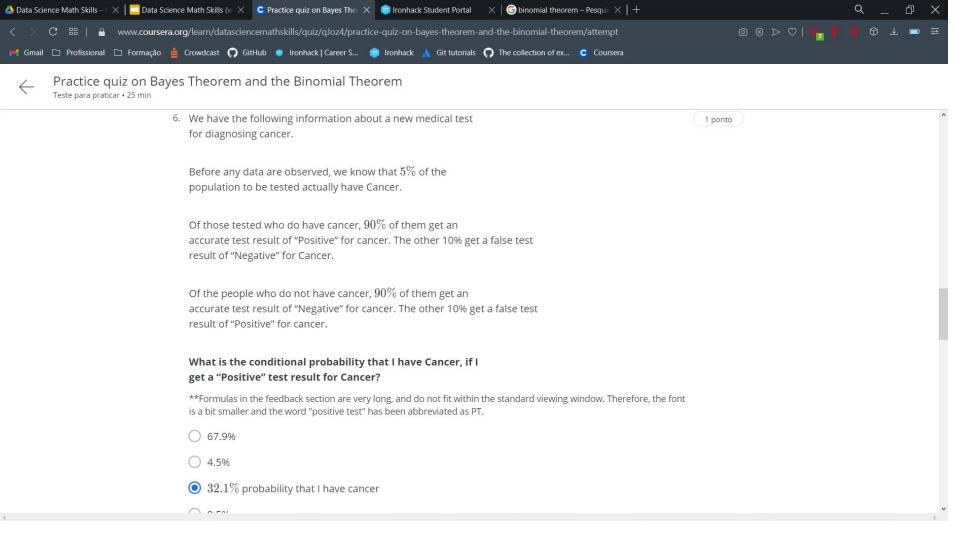
Applying Bayes Theorem and the Binomial

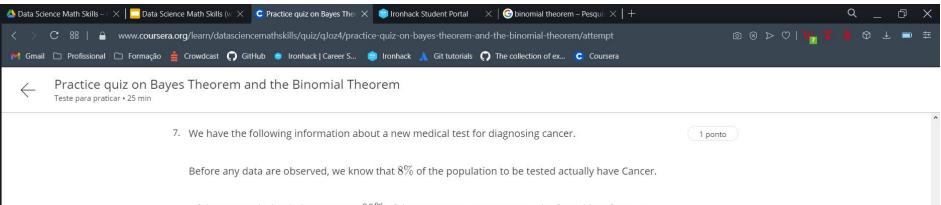
**Theorem** 

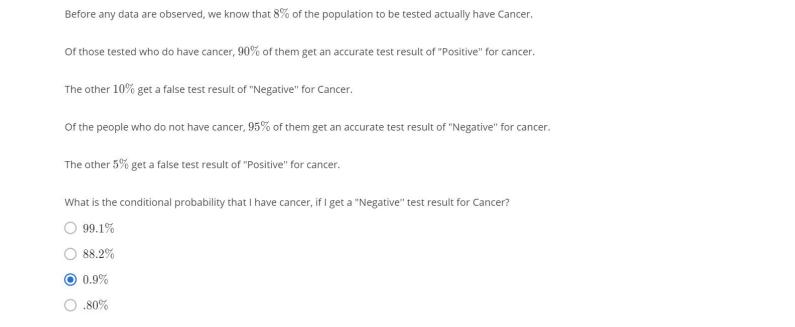


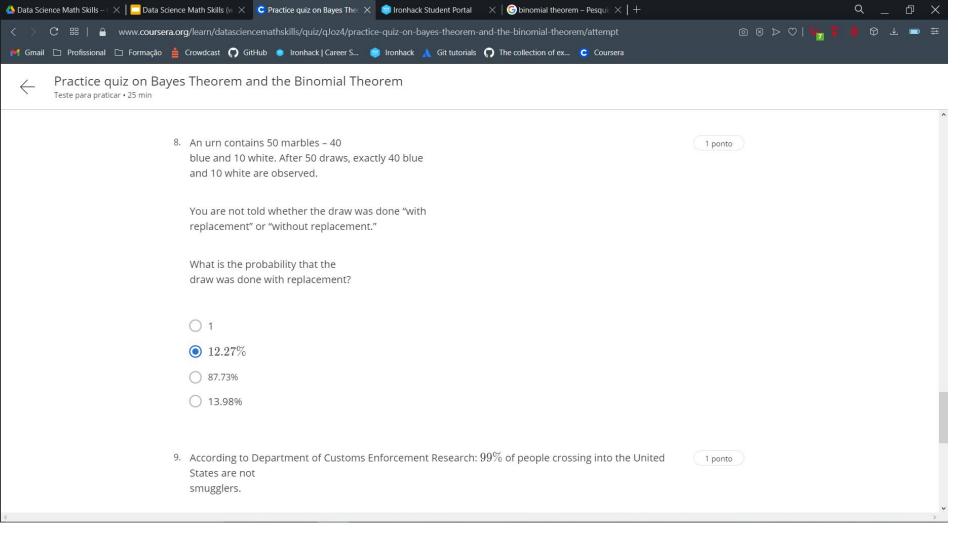


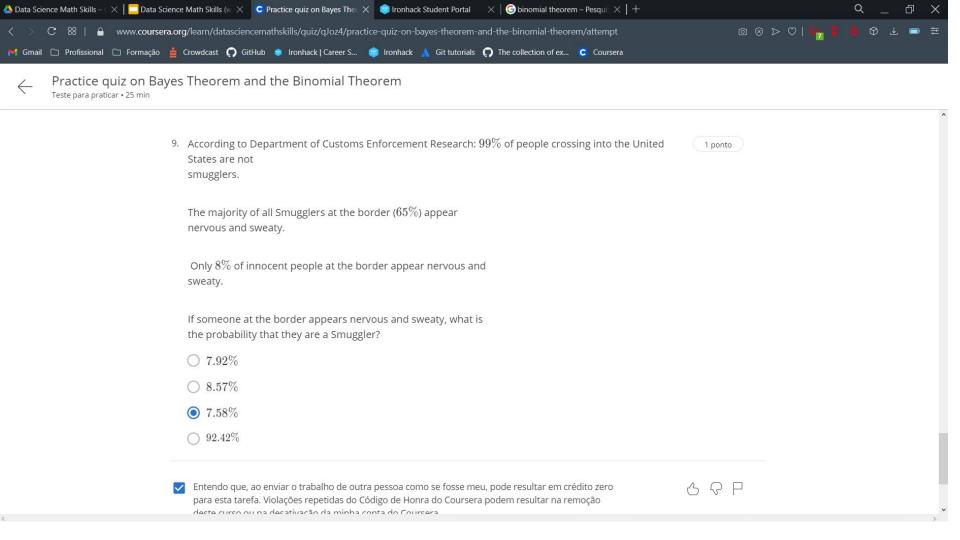






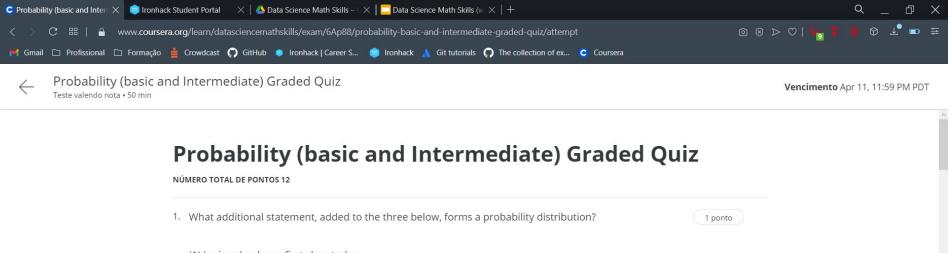


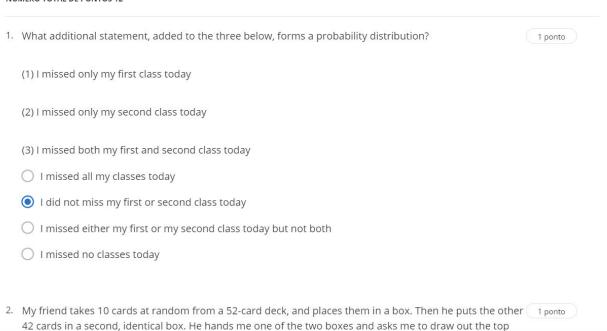


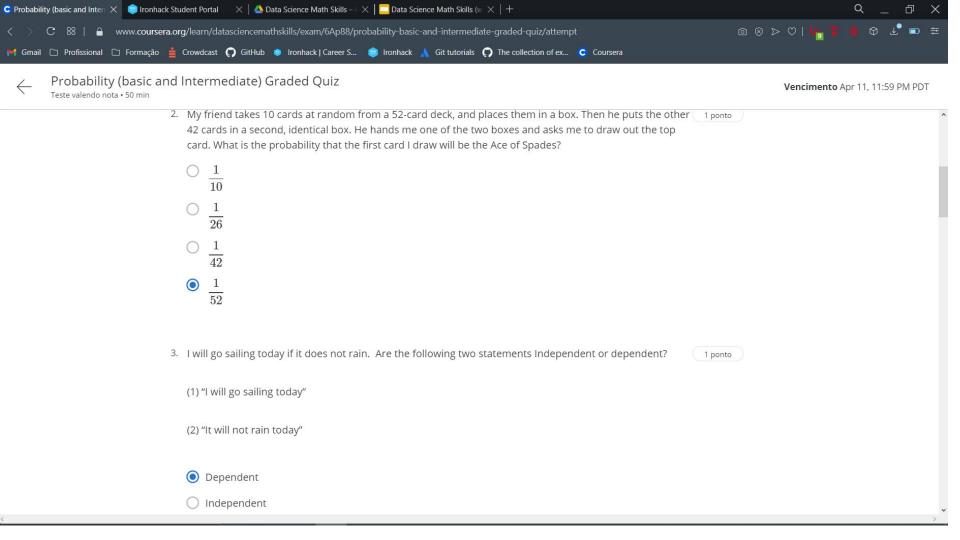


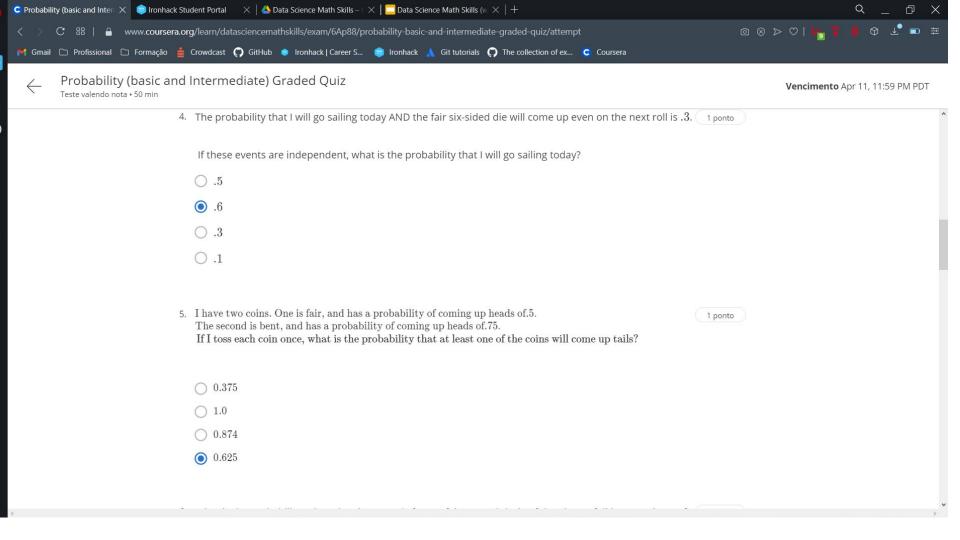
Applying Bayes Theorem and the Binomial

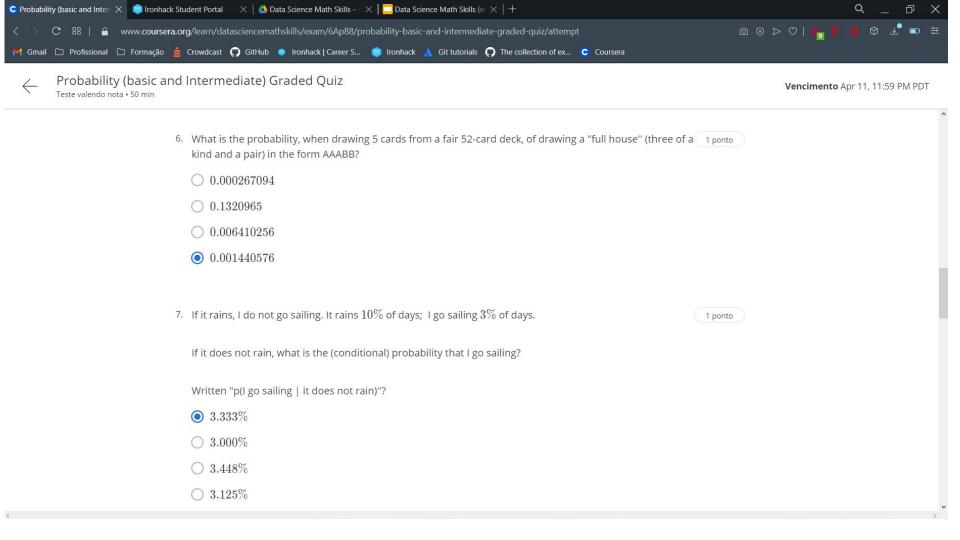
**Theorem** 

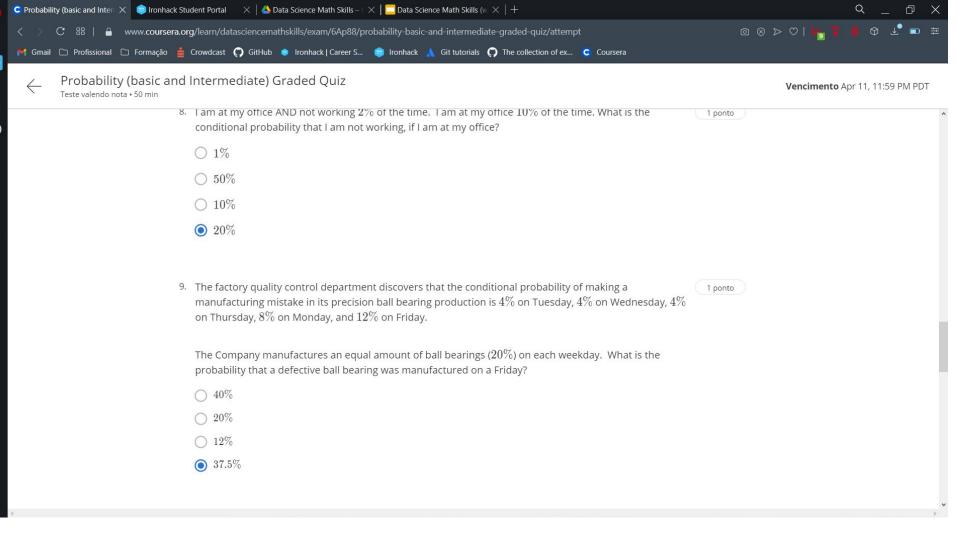


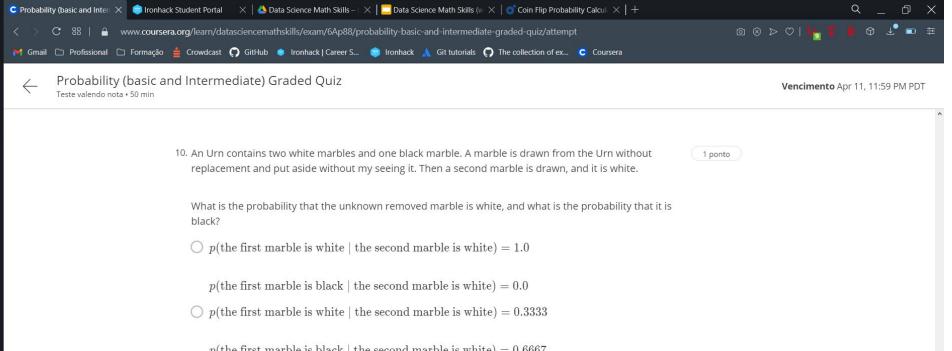


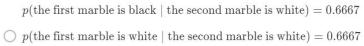












 $p(\text{the first marble is black} \mid \text{the second marble is white}) = 0.333$ 

 $\bigcirc$  p (the first marble is white | the second marble is white) = .5

p(the first marble is black | the second marble is white) = .5





