11/9/21, 3:57 PM Lesson 5.1-5.2 | Coursera



**Lesson 5.1-5.2** Graded Quiz • 30 min

## coursera

**Due** Nov 1, 2:59 AM EDT

## **■ PenGonggratulations!** You passed!

Grade received 77.77% To pass 75% or higher Lesson 5.1-5.2

Quiz • 30 min Go to next item

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Due PSSON AN ELT-5At2mpts 3 every 8 hours

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1. For Questions 1-5, consider the following scenario:

1 / 1 point

Receive grade

Your grade be the unknown political viewpoint of your colleague, which we will assume can only take values  $\theta = \text{conservative}$  or 77.7000 liberal. You have no reason to believe that your colleague leans one way or the other, so you assign the prior  $P(\theta = 77.7000) = 0.5$ .

Assume the five questions are independent and let Y count the number of "yes" responses. If your colleague is **View Feedback** then the probability of a "yes" response on any given question is 0.8. If your colleague is liberal, the probability of a "no" response on any given question is 0.7. We keep your highest score

• What is an appropriate likelihood for this scenario?