



SEARCH



RESOURCES

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Mentor Help
Ask a mentor on our Q&A platform



Peer Chat ☐
Chat with peers and alumni

Learning Objectives - Bayes' Rule

The following questions will help you review what you learned in the Bayes' Rule

Prior knowledge

For questions 1-3, assume you already have the following knowledge:

You're interested in finding out the probability of a car stopping if it sees a *yellow*

- Past data tells you that the probability of a car stopping at a traffic light int $P(S) = 0.40$.
- You also know that the past probability of a traffic light being yellow (as op is $P(Y) = 0.10$.



Car stopping at a yellow light

QUESTION 1 OF 5

When a car is stopped at an intersection, data shows that 12% of the time So if we know a car is stopped, there's a 12% chance the light is yellow. Thi *conditional probability*.

Given $P(S)$ and $P(Y)$ above, how would you represent this conditional proba

☐ $P(S|Y) = 0.12$

☐ $P(S) = 0.12$

☒ $P(Y|S) = 0.12$

☐ $P(Y,S) = 0.12$

QUESTION 2 OF 5

Using what you know from question 1, answer the following: if the traffic li what is the chance that the car will stop?

☐ 0.04