

## **Conditional Probability**

In this lesson you learned about conditional probability. Often events are not ir coin flips and dice rolling. Instead, the outcome of one event depends on an ea

Text: Summary

For example, the probability of obtaining a positive test result is dependent on have a particular condition. If you have a condition, it is more likely that a test r formulate conditional probabilities for any two events in the following way:

$$P(A|B) = \frac{P(A \cap B)}{P(B)}$$

In this case, we could have this as:

$$P(positive|disease) = rac{P(positive \cap disease)}{P(disease)}$$

where | represents "given" and  $\cap$  represents "and".

## **Looking Ahead**

You will get more practice with conditional probability using Bayes rule in the le comfortable with the examples here, the next lesson should be a breeze. And i uncomfortable with these ideas, the next lesson should be good practice to rei with some more examples.