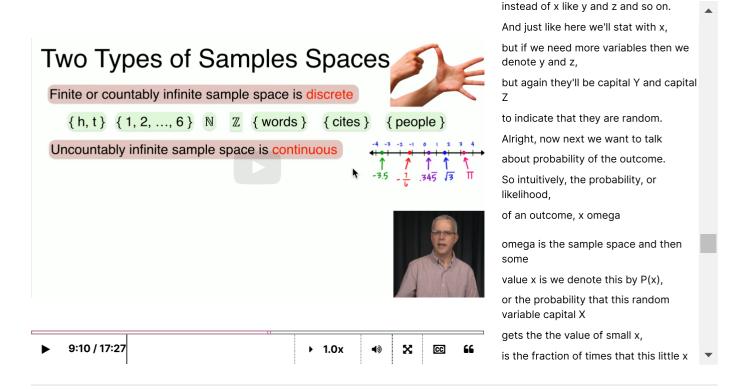
#### Video



## 5.1\_Probability\_Introduction

## **POLL**

Which of the following outcomes are random (not certain) when rolling a six-sided dice?

#### **RESULTS**

A real number. 8%

An even number. 73%

A positive number. 19%

Submit

Results gathered from 26 respondents.

#### **FEEDBACK**

The outcome of dice is certainly real and positive, but it may or may not be even, so it is random.

# 1 (Graded)

1/1 point (graded)

Which of the following outcomes are random (not certain) after throwing a six-sided dice?

✓ Get number <b>3</b>			
✓ Get an even number			
Get a positive number			
<b>✓</b>			
<ul> <li>Explanation</li> <li>True. We may get e.g. 4 as an outcome, which is not 3.</li> <li>True. We may get e.g. 3 as an outcome, which is not even.</li> <li>False. All outcomes of a six-sided dice are positive.</li> </ul>			
Submit You have used 1 of 2 attempts			
Answers are displayed within the problem			
2 (Graded)			
1/1 point (graded) Imagine a single experiment where we flip a coin $m{6}$ times, and get "head, tail, head, head, head, head".			
Which of the following statements hold?			
The coin is not fair.			
$oxedsymbol{oxed}$ The coin's "tail" probability is $1/6$ .			
✓ The sequence "head, tail, head, head, head" is an outcome in the sample space.			
The sample space of the experiment is {head, tail}.			
✓			
Explanation  - False. The outcome is random and the coin may be fair.  - False. In this experiment 1 out of 6 outcomes was "tail", but the coin's "tail" probability may differ.  - True. The sample space consists of all secquences of six "head" and "tail", and this is one of them.  - False. The sample space is a set of tuples  {(head, head, tail),, (tail, tail, tail, tail, tail).			
Submit You have used 4 of 4 attempts			
Answers are displayed within the problem			

# Discussion

Topic: Topic 5 / Introduction

## **Hide Discussion**

# Add a Post

Show all posts	<b>~</b>	by recent activity 🗸	
There are no posts in this topic yet.			
×			