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Resource ID#: 131227

Primary Type: Tutorial

Direct Link: https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-probability-statistics/cc-7th-compound-events/v/compound-sample-spaces

Compound Sample Spaces

This video explores how to create sample spaces as tree diagrams, lists and tables.

General Information

Subject(s): Mathematics
Grade Level(s): 7
Intended Audience: Students

Instructional Time: 9 Minute(s)

Suggested Technology: Internet Connection, Speakers/Headphones

Keywords: compound, sample space, tree diagram

Instructional Component Type(s): Tutorial, Video/Audio/Animation,

Resource Collection: Secondary Math specific existing tutorials

Source and Access Information

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Name of Author/Source: Khan Academy
District/Organization of Contributor(s): Leon
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Aligned Standards

Name	Description
MAFS.7.SP.3.8:	Find probabilities of compound events using organized lists, tables, tree diagrams, and simulation. a. Understand that, just as with simple events, the probability of a compound event is the fraction of outcomes in the sample space for which the compound event occurs. b. Represent sample spaces for compound events using methods such as organized lists, tables and tree diagrams. For an event described in everyday language (e.g., "rolling double sixes"), identify the outcomes in the sample space which compose the event. c. Design and use a simulation to generate frequencies for compound events. *For example, use random digits as a simulation tool to approximate the answer to the question: If 40% of donors have type A blood, what is the probability that it will take at least 4 donors to find one with type A blood?*