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4. Exercise: Sample space

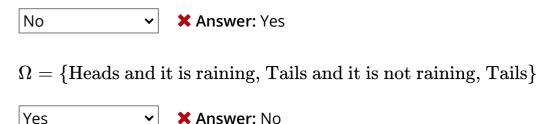
Exercises due Feb 5, 2020 05:29 IST Completed

Exercise: Sample space

0/2 points (graded)

For the experiment of flipping a coin, and for each one of the following choices, determine whether we have a legitimate sample space:

 $\Omega = \{ \text{Heads and it is raining, Heads and it is not raining, Tails} \}$



Solution:

In the first case, the elements of Ω are mutually exclusive and collectively exhaustive, and therefore Ω is a legitimate sample space.

For the second case, if the outcome is "Tails and it is not raining," then the outcome "Tails" will have also occurred. Therefore the elements of Ω are not mutually exclusive, and Ω is not a legitimate sample space.

Submit You have used 1 of 1 attempt

1 Answers are displayed within the problem



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Sample Space So in general words, is the Sample-Set a super-set of all possible outcomes, right?	5
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Pon't understand why {Heads and rain, Heads and no rain, Tails} is a collectively exhaustive set Hi, I don't understand why {Heads and rain, Heads and no rain, Tails} is a collectively exhaust	2
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