

Push Tasks



Calculate combined probabilities from a without-replacement tree.

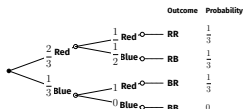
1.



Find

~~$P(\text{one Red, one Blue, either order})$.~~

2.



Find $P(\text{at least one Blue})$.

3. A student says "A card is shuffled and drawn, so every later draw must be independent of it." What is wrong with this?

4.

Hand/Chord	Guitar	No guitar	Total
Left-handed	5	14	19
Right-handed	12	68	80
Total	17	82	99

Find $P(\text{Guitar} \mid \text{Left-handed})$ vs $P(\text{Guitar})$ overall. Independent?

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Critique probability claims involving conditional and independent reasoning.

5. “I already rolled a 6, so the next roll is less likely to be a 6.” Explain the error.

6. A survey shows many left-handed students play guitar. Does that alone prove dependence? What else matters?

7. If event A makes B more likely, what can you say about $P(B | A)$ compared with $P(B)$?

8. Describe one real example of independent events and one of dependent (conditional) events.