

The sample space for single-stage events; assign probabilities to the...

identify the sample space for single-stage events; assign probabilities to the outcomes of these events and predict relative frequencies for related events

Learning intention

- identify the sample space for single-stage events; assign probabilities to the outcomes of these events and predict relative frequencies for related events

Teach and model

- discussing the meaning of probability terminology; for example, “probability”, “sample space”, “favourable outcome”, “trial”, “experiment” and “event”
- listing sample spaces for games involving throwing a coin or a dice, spinners, or lucky dip
- exploring how relative frequencies can be used to make predictions by estimating the probability of an event; for example, in natural language processing (NLP)...

Check understanding

- Explain the main idea in the sample space for single-stage events; assign probabilities to the... using an example.
- Show the idea in a second way: with words, a model, a diagram or symbols.
- Apply the idea to a short unfamiliar situation and justify the result.

Teaching cautions

- Ask the student to explain their choice, not only state an answer.
- Check that key vocabulary is understood in a new example.
- Mix representations so the skill is transferred rather than copied.

Quick lesson sequence

- Connect to prior knowledge and introduce the key vocabulary.
- Model one clear example, then solve a second example together.
- Finish with an independent check and a short student explanation.