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| **Exploring Theoretical and Experimental Probability** |
| Identifies the experimental probability of an outcome for two independent eventsThe results for 8 trials: The outcome, green, orange, occurred 3 times. So, the experimental probability of green, orange is: = 0.375  = 37.5% | Identifies the theoretical probability of an outcome for two independent events Sample space:For green, orange, there is 1 favourable outcome and 6 possible outcomes. So, the theoretical probability of green, orange is: = 0.1666…  ≈ 17% | Compares the theoretical and experimental probabilities for a probability experimentThe results for 10 trials.Sample space:Experimental probability of 2 heads is: = 0.4 = 40%Theoretical probability of 2 heads is:= 0.25 = 25%The experimental probability is greater than the theoretical probability. | Understands how experimental and theoretical probabilities may be related if many trials are conductedFor 100s of trials of an experiment, the experimental probability of an outcome may approach its theoretical probability. |
| **Observations/Documentation** |
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