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| **Probability of Two Independent Events** | | | |
| Calculates theoretical probability for 2 independent events    Spinning the pointer on each  spinner once  Sample space:    For green and orange, there is 1 favourable outcome and 6 possible outcomes, so  the theoretical probability of green and orange is: | Calculates experimental probability for 2 independent events    Spinning the pointer on each  spinner once  The results for 10 trials:    The outcome, green and orange, occurred 3 times, and the experiment was conducted 10 times, so the experimental probability of green and orange is:  = 0.3 = 30% | Compares experimental and theoretical probabilities for the same experiment  Tossing two coins    The 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 the experimental and theoretical probabilities are affected by many trials  For 100s of trials of an experiment, the experimental probability of an outcome may approach its theoretical probability. |

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| **Observations/Documentation** | | | |
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