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| **Determining the Probability of Events (Dependent Events)**  |
| Uses examples to explain the difference between dependent events and independent eventsDependent events: the outcome of one event affects the outcome of the other event, for example, removing a marble from a bag, and not replacing it before a second marble is taken.Independent events: the outcome of one event does not affect the outcome of the other event, for example, removing a marble from a bag, then replacing it before a second marble is taken. | Identifies the sample space for two dependent events The sample space is: Y, R; Y, B; R, Y; R, B; B, Y; B, R | Determines the probability of two dependent events using the sample space From the sample space, the probability of removing blue and yellow marbles is: = , or 0.$\overbar{3}$, or 33.$\overbar{3}$% | Determines the probability of two dependent events using operations Probability of removing blue then yellow is:× = Probability of removing yellow then blue is: × = So, the probability of removing blue and yellow marbles is:+ =  |
| **Observations/Documentation** |
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