Data Management and Probability

## Activity 8 Assessment

Determining the Probability of Three Independent Events

| Determining the Probabilit | Three Independent Events |  |  |
| :---: | :---: | :---: | :---: |
| Identifies the sample space for two independent events | Determines the probability of two independent events using the sample space <br> The theoretical probability of $2, \mathrm{H}$ is: $\frac{1}{8}$, or 0.125 , or $12.5 \%$ | Determines the probability of two independent events using multiplication <br> The probability of rolling 2 is $\frac{1}{4}$. <br> The probability of tossing H is $\frac{1}{2}$. <br> So, the probability of the event 2, H is: $\frac{1}{4} \times \frac{1}{2}=\frac{1}{8}$ | Determines the probability of three independent events <br> The probability of the event: rolling 2 , tossing tails, and landing on green is: $\frac{1}{4} \times \frac{1}{3} \times \frac{1}{2}=\frac{1}{24}$ |
| Observations/Documentatio |  |  |  |
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