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$\qquad$

| Sample Size: |  |
| :---: | :---: |
| days |  |
| Probability a random day will have rain: |  |
| $\mathbf{P}($ Rain ) = ___ / ___ (__ \%) |  |
| Probability a random day will have good air and rain: |  |
| $\mathbf{P}(\mathrm{GA}$ and R$)=\ldots \ldots / \ldots \ldots$ ( ___\%) |  |
| Probability a random day will have good air or rain: |  |
| $\mathbf{P}(\mathrm{GA}$ or R$)=\ldots \ldots \ldots \ldots \quad$ ( ___ \%) |  |
| Probability a random day will have good air: |  |
| $\mathbf{P}(\mathbf{G A})=\ldots$ |  |
| Probability a random day will have good air, given that we already know that it rained that day: |  |
| $\mathbf{P}(\mathrm{GA} \mid \mathrm{R})=$ ___ $/$ ___ ( ___ \%) |  |
| Good Air and Rain are: |  |
| independent <br> (have no effect on each other) | dependent <br> (have some effect on each other) |


|  | Good Air | Bad Air | Total |
| :---: | :---: | :---: | :---: |
| Rain |  |  |  |
| No Rain |  |  |  |
| Total |  |  |  |



