## Tuesday, April 16,2019

- Warm-up
- If I flip two coins - what are allpossible outcomes?





- Sample Space \& Frequency Tables


## Objectives

Content: I will create and use sample spaces to organize probability and outcomes. Social: I will brainstorm with my group and create sample spaces.
Language: I will use the definition of probability and sample space to organize and sort through situations.

Some Definitions

- Sample space $\rightarrow$ the set of ALL possible outcomes it coned be in a table compound events ( 2 or more together) $\rightarrow$ List all combinations
- Frequency Table $\rightarrow$ a list of how many times outcomes (Organized) * more helpful if it is in order occur
- Histogram Graph = visual of frequency table
like a bar graph, but order matters (quantitative data)

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Using Sample Space
When a button is pressed, a computer program outputs a randomoddnumber greater than 1 and less than 9. You press the button twice. What is the probability that the sums 10 ?


| 3 | 3 | 5 | 7 |
| :---: | :---: | :---: | :---: |
| 5 | 6 | 8 | 10 |
| 7 | 8 | 10 | 12 |
|  | 10 | 14 |  | space


| sums/ |
| :---: |
| 6 |$|$



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Dice 7 rivia
dets $\rightarrow$ "pips"

Sample Space for 2 dice

|  | 1 | 2 | 3 | 4 | 5 | 6 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | $\prime \prime$ | $1,2^{2}$ |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |

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|  | 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |



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