**Data Management**

**Unit 2 Line Master 2a**

All Possible Outcomes

**Part A**

|  |  |  |
| --- | --- | --- |
| Two students tossed a coin and  spun the pointer on this spinner  to do a probability experiment  Make a tree diagram to determine  all possible outcomes. | **Shape  Description automatically generated with low confidence** | **Chart, pie chart  Description automatically generated** |

How many possible outcomes are there? How do you know?

List the outcomes in a table.

**Data Management**

**Unit 2 Line Master 2b**

All Possible Outcomes (cont’d)

**Part B**

|  |  |  |
| --- | --- | --- |
| Use two objects to design your own  probability experiment.  Determine all possible outcomes for  your experiment. | Shape  Description automatically generated with low confidence | **Chart, pie chart  Description automatically generated** |
| A picture containing bottle  Description automatically generated | Shape, circle  Description automatically generated |

Choose one possible outcome.   
Determine the theoretical probability of that outcome.  
Record the probability using a fraction, decimal, or percent.

Determine the “odds in favour” of that outcome.

What do you notice about the sum of the theoretical probabilities   
of an outcome occurring and not occurring? Justify your thinking.