Data Management and Probability

## Activity 8 Assessment

Independent Events

| Listing All Possible Outcomes of an Experiment |  |  |  |
| :---: | :---: | :---: | :---: |
| Uses a tree diagram to determine all possible outcomes of an experiment. <br> "There are 3 possible outcomes: 2 heads, 2 tails, and 1 head and 1 tail." | Uses a table or organized list to determine all possible outcomes of an experiment. <br> The principal can choose from 2 colours of pants (purple or red) and 3 colours of shirts (green, orange, or pink). <br> "I chose one pant colour, then matched it with each shirt colour." | Determines the theoretical probability using a tree diagram, table, or organized list. <br> "I divided the number of favourable outcomes by the total number of outcomes to find the theoretical probabilities." | Flexibly determines theoretical probability and knows that the sum of probabilities is 1 or $100 \%$. <br> "It is certain that one of the possible outcomes will occur, and the probability of a certain event is 1 . <br> So, the sum of the probabilities of all possible outcomes must be 1 or $100 \%$. |
| Observations/Documentation |  |  |  |
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