## Activity 14 Assessment

## Using Code to Simulate Independent Events

| Using Code to Simulate Tossing Two Coins |  |  |  |
| :---: | :---: | :---: | :---: |
| Interprets provided code that uses random numbers to simulate tossing two fair coins <br> This part of the code simulates tossing two coins one time. The code uses 0 to represent a head and 1 as a tail. It can be used in a repeat to simulate many tosses. | Changes code so that the experimental probabilities are closer to the theoretical probabilities <br> By changing the number of repeats to a very large number, I can get experimental probabilities that are very close to the theoretical probabilities. | Finds and fixes errors in code and/or pseudocode that simulates coin tosses <br> When I ran my code, the probability for 2 tails was much greater than for 2 heads. I looked at my code and noticed I used the wrong random number range for the coins. | Alters code or pseudocode to simulate tossing 1 fair and 1 unfair coin <br> I changed the random number range for one of my coins to 0 to 3 , with 1 , 2 , and 3 all representing tails. <br> This represents a coin with a $\frac{3}{4}$ probability of landing tails. |
| Observations/Documentation |  |  |  |
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