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Students will create frequency distribution tables to determine difference in experimental probability and theoretical probability. Students will calculate experimental probability given data.


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Pick Three - Day 1

| Play | Student 3 digit \# | Random \# | Win or Loss | Total candies |
| :--- | :--- | :--- | :--- | :--- |
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|  |  |  |  |  |

1. How many tootsie rolls did you begin with?
2. How many tootsie rolls did you win?
3. How many tootsie rolls did you lose?
4. If you stopped playing, why?





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| Score | 3 | 2 | 1 |
| :---: | :---: | :---: | :---: |
| Pretest | Completed | Finished but left some questions unanswered | Did not take or left most of the questions unanswered |
| Part one |  |  |  |
| Records | Every round recorded correctly | Left out one or two rounds OR recorded incorrectly | Left out three or more rounds OR recorded three or more incorrectly |
| Questions | Answered every question completely | Left one answer unanswered | Left two or more questions unanswered |
| Calculations on candy tally | Complete and accurate | Complete with one mistake | Two or more mistakes |
| Part two |  |  |  |
| Frequency chart | Complete and accurate | Complete with only one mistake | Not complete or with more than one mistake |
| Individual probability | Accurate | Miscalculation | Did not attempt |
| Class probability | Accurate | Miscalculation | Did not attempt |
| Probability for 6 numbers | Accurate | Miscalculation | Did not attempt |
| Gambling over 18 | Answers but justification is not logical | Answers but justification shows little logic | Shows no justification OR did not answer |
| Difference in probabilities | Indicates thorough understanding | Indicates some understanding but not completely thought through | Indicates no or little understanding OR did not answer question |
| Grammar on both parts | Used full sentences and only one or two mistakes | Used full sentences and made three or four mistakes | Did not use full sentences OR made more than four mistakes |
| Post test | Completed | Completed by left some questions unanswered | Did not take or left most questions unanswered |
| Learning | Shows significant difference in knowledge from pretest to post test | Shows some difference in knowledge from pretest to post test | Shows little difference in knowledge from pretest to post test |






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