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| **WARM UP/**  **REVIEW** | 1. Simplify: 17 + 5²(4) – 9(2)  2. If Steve multiplied his purchase price by 1.08 to get his total bill, what percent sales tax was he paying?  3. A triangular park has an area of 4,000 square feet. If the base of the triangle is 200 feet, find the height of the triangle. |
| **VOCAB** | **Theoretical Probability:**  **Experimental Probability:**  **Relative Frequency:** |
| **Notes** | **How are experimental probability, theoretical probability, and relative frequency similar and different?**  ***Learnzillion.com Quick Code: LZ1348—Four Videos*** |
| **PRACTICE**  **Do this AFTER LESSON ACTIVITY!!!!!!!** | 1. A die is rolled. What is the theoretical probability for rolling a 3?  Mary rolls a die six times and rolls a 3, on two of the rolls. What is the experimental probability for rolling a 3?  2. Create a situation where the experimental probability and the theoretical probability have the same value.  3. A coin is flipped. a. What is the theoretical probability for flipping a tail?  b. Mark and John flip a coin twenty times and get 8 heads, 12 tails. What is the experimental probability for flipping a tail?  c. If Mark & John flip the coin 100 times, what do you think will happen to the experimental probability?  4. A factory produces 1000 light bulbs per minute. Each minute, one bulb produced will be defective.  a. What is the theoretical probability of selecting the defective bulb from the light bulbs produced in one minute?  b. What is the theoretical probability of selecting a defective bulb from the light bulbs produced in one hour?  5. Every 100th box of candy contains a prize.  a. What is the theoretical probability for selecting the box of candy with a prize?  b. A case contains 1000 boxes and how many prizes?  c. What is the probability of selecting a box containing a prize from a case?  6. Create a situation where the experimental probability is greater than the theoretical probability.  7. How does understanding probability help someone who plays cards? |
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