Name _____



# *Expected or Observed*

**Directions:** Find the theoretical and experimental probabilities. Then state whether the experimental probability is greater than, less than, or equal to the theoretical probability.

1. A fair coin has a theoretical probability of 1/2 for heads. In 40 flips, heads appeared 24 times. Experimental probability: _____ Comparison: _____

2. A fair number cube has a theoretical probability of 1/6 for rolling a 3. In 60 rolls, a 3 appeared 8 times. Experimental probability: _____ Comparison: _____

3. A spinner has 8 equal sections, with 2 red sections. The theoretical probability of red is 1/4. In 40 spins, red appeared 10 times. Experimental probability: _____ Comparison: _____

4. A bag contains 3 blue and 7 yellow counters. The theoretical probability of blue is 3/10. In 50 draws with replacement, blue appeared 18 times. Experimental probability: _____ Comparison: _____

5. A fair number cube has a theoretical probability of 1/2 for rolling an even number. In 48 rolls, an even number appeared 20 times. Experimental probability: _____ Comparison: _____

6. A spinner has 5 equal sections, with 2 star sections. The theoretical probability of a star is 2/5. In 50 spins, the spinner landed on a star 25 times. Experimental probability: _____ Comparison: _____

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