Name _____



Chance Comparison

Directions: Find the theoretical and experimental probability for each event. Then write greater than, less than, or equal to.

1. A fair coin is flipped 20 times. Heads occurs 12 times.
   Theoretical P(heads): _____
   Experimental P(heads): _____
   Experimental probability is _____ theoretical probability.

2. A standard number cube is rolled 30 times. A 6 occurs 5 times.
   Theoretical P(6): _____
   Experimental P(6): _____
   Experimental probability is _____ theoretical probability.

3. A spinner has 4 equal sections, with 1 red section. In 40 spins, red occurs 8 times.
   Theoretical P(red): _____
   Experimental P(red): _____
   Experimental probability is _____ theoretical probability.

4. A standard number cube is rolled 24 times. An even number occurs 15 times.
   Theoretical P(even): _____
   Experimental P(even): _____
   Experimental probability is _____ theoretical probability.

5. A bag has 2 blue and 3 yellow counters. A counter is chosen and replaced 25 times. Blue occurs 10 times.
   Theoretical P(blue): _____
   Experimental P(blue): _____
   Experimental probability is _____ theoretical probability.

6. A spinner has 5 equal sections numbered 1 through 5. In 30 spins, a number greater than 3 occurs 9 times.
   Theoretical P(greater than 3): _____ Experimental P(greater than 3): _____
   Experimental probability is _____ theoretical probability.

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