Name _____

Chance Comparison Answer Key

1. Theoretical: 1/2. Experimental: 12/20 = 3/5. Greater than.
2. Theoretical: 1/6. Experimental: 5/30 = 1/6. Equal to.
3. Theoretical: 1/4. Experimental: 8/40 = 1/5. Less than.
4. Theoretical: 1/2. Experimental: 15/24 = 5/8. Greater than.
5. Theoretical: 2/5. Experimental: 10/25 = 2/5. Equal to.
6. Theoretical: 2/5. Experimental: 9/30 = 3/10. Less than.

Teacher's Guide

- Quick implementation: Review that theoretical probability is based on possible outcomes, while experimental probability is based on actual trial results.
- Differentiation: Have students convert both probabilities to fractions with common denominators or decimals before comparing.
- Engagement: Ask students to predict whether each experimental result will be above, below, or exactly at the theoretical probability before calculating.
- Extension: Have students explain why experimental probability does not always equal theoretical probability, especially when the number of trials is small.

© GetWorksheets.com