Name _____

Expected or Observed Answer Key

1. 24/40 = 3/5; greater than 1/2.
2. 8/60 = 2/15; less than 1/6.
3. 10/40 = 1/4; equal to 1/4.
4. 18/50 = 9/25; greater than 3/10.
5. 20/48 = 5/12; less than 1/2.
6. 25/50 = 1/2; greater than 2/5.

Teacher's Guide

- Quick implementation: Review that theoretical probability describes what should happen based on the model, while experimental probability describes what actually happened in trials.
- Differentiation: Have students simplify both probabilities or convert them to decimals before comparing.
- Differentiation: For extra support, let students use equivalent fractions with a common denominator to make comparisons.
- Engagement: Ask students to predict whether each experiment will match the theoretical probability before calculating.
- Extension: Have students explain why experimental results do not always match theoretical probabilities exactly, especially with a limited number of trials.

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