Name _____

Probability Repair Answer Key

1. There are 3 even outcomes out of 6. P(even) = 3/6 = 1/2.
2. TH is missing. The sample space is HH, HT, TH, TT. Total outcomes = 4.
3. The fraction is reversed. P(red) = 2/8 = 1/4.
4. Each spin is independent. The next spin can still be 5, with P(5) = 1/5.
5. The favorable outcomes are 5 and 6. P(number greater than 4) = 2/6 = 1/3.
6. 14/20 = 7/10 is the experimental probability. The theoretical probability of heads is 1/2.

Teacher's Guide

- Quick implementation: Have students identify what went wrong before calculating or writing the correction. Focus on sample spaces, favorable outcomes, total outcomes, and independent events.
- Differentiation: Let students underline the incorrect part of each fictional solution before correcting it.
- Engagement: Have pairs compare one correction and explain why the original reasoning fails.
- Extension: Ask students to rewrite two incorrect solutions so that they become mathematically correct.

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