# Theoretical v. Experimental Probability

### Day 1

1. Have students flip a coin 10 times. Gather the results for each class and total for all classes at the end of the day.
2. Have student roll 1 die 10 times. Gather the results for each class and total for all classes at the end of the day.

### Day 2

Compare the theoretical probability (1/2 of coin) (1/6 of die) to the actual experiment and discuss the results. Have students record the results on their handout.

This activity may be adjusted to accommodate class size.

| YOUR Coin | Class Totals | YOUR Die | Class Totals |
|---|---|---|---|
| Heads = | Heads = | 1's = | 1's = |
| Tails = | Tails = | 2's = | 2's = |
|  |  | 3's = | 3's = |
|  |  | 4's = | 4's = |
|  |  | 5's = | 5's = |
|  |  | 6's = | 6's = |