

13-4 Practice

Simulations

Design and conduct a simulation using a geometric probability model. Then report the results using appropriate numerical and graphical summaries.

1. **TRACK** Sean successfully handed off his baton 95% of the time in the 4×4 relay last season.

2. **BOARD GAME** A game has 50 cards with 10 each numbered 1 to 5, and a player must draw a 2 or a 3 to move out of the “start” position.

Design and conduct a simulation using a random number generator. Then report the results using appropriate numerical and graphical summaries.

3. **REAL ESTATE** A real estate company reviewed last year’s purchases to determine trends in sizes of homes purchased. The results are shown in the table.

Homes	Purchase %
2BR	10%
3BR	35%
4BR	30%
5BR	15%
6BR	10%

4. **GRADES** On Jonah’s math quizzes last semester he scored an A 80% of the time, a B 15% of the time, and a C 5% of the time.