Chapter 6

# Try It Yourself: Predictability from Histograms

## Excel Instructions

1. Open **pinball.csv** file in Excel
2. Create Histograms
   1. Insert → Chart Group → Insert Statistic Chart → Histogram
   2. Right-click the chart area
      1. Click “Select Data”
      2. Legend Entries (Series) → Edit

* Series values → Select the scores corresponding to Darc (B2:B1001)
* Click OK
  + 1. Click OK
    2. Repeat steps 2–3 for Qpawnz and Ember

1. Calculate Average Scores
   1. Highlight both columns A and B (including column headers)
   2. In the “Insert” tab.
      1. Click “PivotTable”
      2. Click “OK”
   3. In the PivotTable sheet
      1. Drag person to the “Rows” box in PivotTable Fields.
      2. Drag scores to the “Values” box in PivotTable Fields.
      3. Click the dropdown next to “Sum of scores”
         * Click “Value Field Settings…”
         * Select “Average”
         * Click “OK”
2. Compute Probability Estimates (use the original spreadsheet, not the pivot table sheet)
   1. For Darc: In cell E2, type:

=COUNTIFS(A2:A3001, "=Darc", B2:B3001, ">1250")/1000

* 1. For Qpawnz: In cell E3, type:

=COUNTIFS(A2:A3001, "=Qpawnz", B2:B3001, ">1250")/1000

* 1. For Ember: In cell E4, type:

=COUNTIFS(A2:A3001, "=Ember", B2:B3001, ">1250")/1000