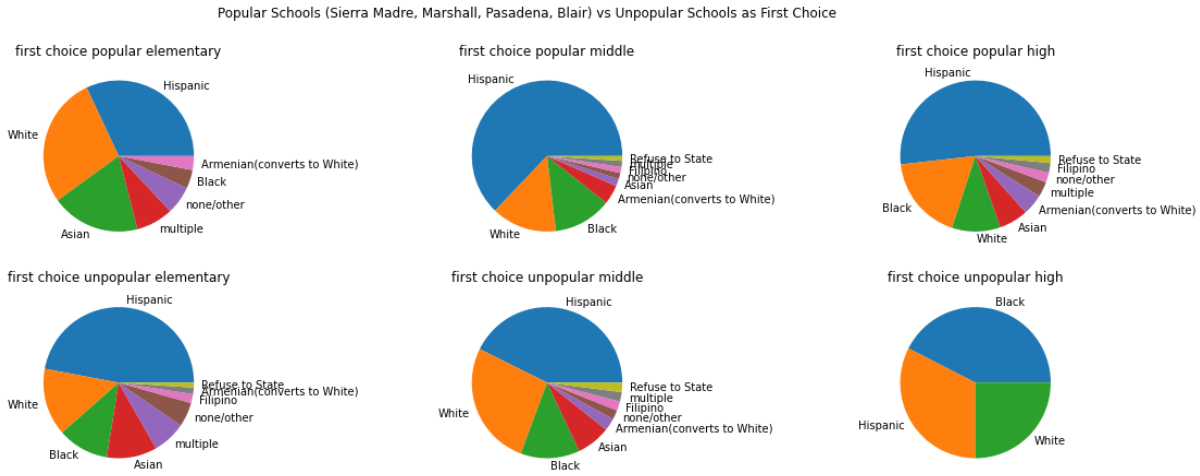
## Summary Statistics of Initial Data

comes from anonymous and sibling datasets

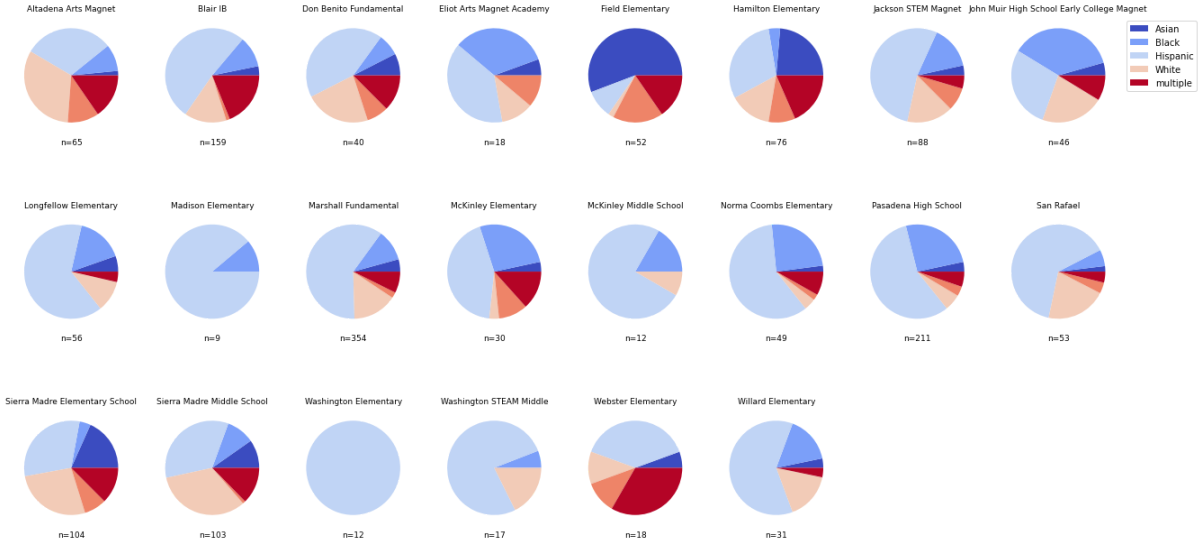
## 1. Lottery First Choice

```
Top Choice for Students

elementary
Sierra Madre Elementary School: 104 (15.23%)
Jackson STEM Magnet: 88 (12.88%)
Hamilton Elementary: 76 (11.13%)
Altadena Arts Magnet: 65 (9.52%)

middle
Marshall Fundamental: 269 (50.0%)
Blair IB: 119 (22.12%)
Sierra Madre Middle School: 103 (19.14%)
Eliot Arts Magnet Academy: 18 (3.35%)

high
Pasadena High School: 211 (55.24%)
Marshall Fundamental: 85 (22.25%)
John Muir High School Early College Magnet: 46 (12.04%)
Blair IB: 40 (10.47%)
```

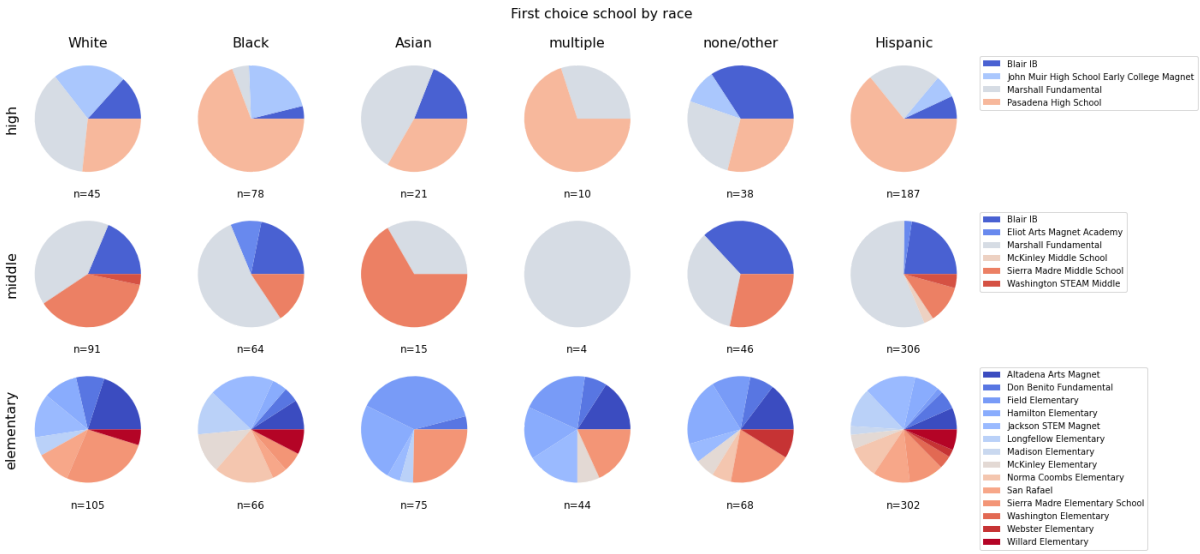



## 1.1 First Choice Race distribution by School

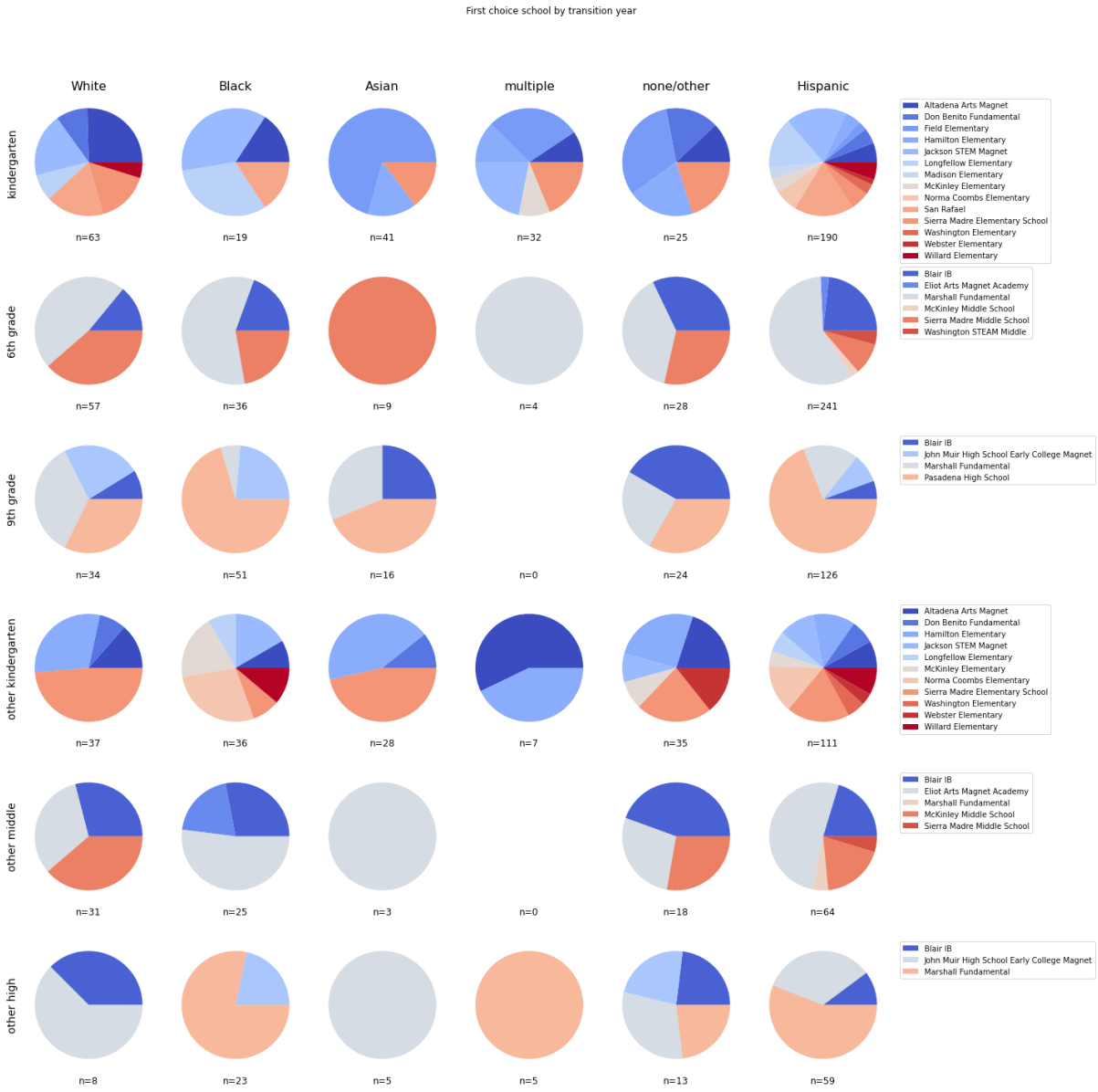
```
/Users/bguo/opt/anaconda3/lib/python3.6/site-packages/pandas/core/index
ing.py:966: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  self.obj[item] = s
```



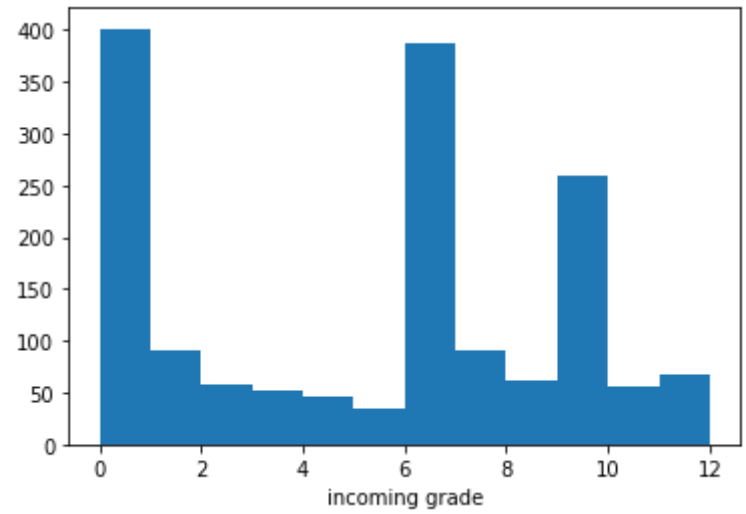

## 1.2 First Choice School by Race



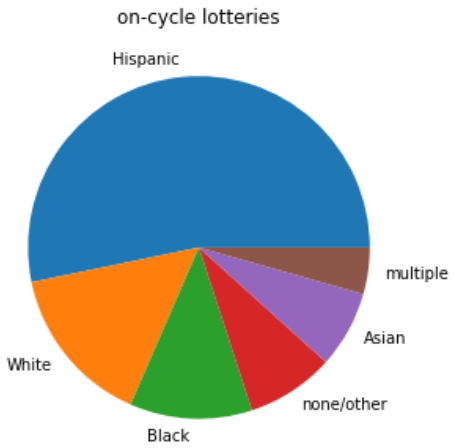

## 1.3 Transition Years: 6th grade, 9th grade, and nontransition years

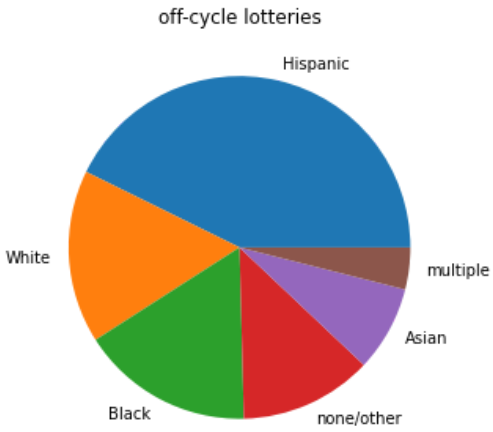



## 2. Distribution of Grade Levels



We can call the people going to grades K, 6, 9 as "on cycle". Everyone else in the lottery is "off-cycle". Is there a difference demographically?




## 3. Lottery Result Quality

What proportion of certain demographics get their Nth choice?

## 3.1 By Race

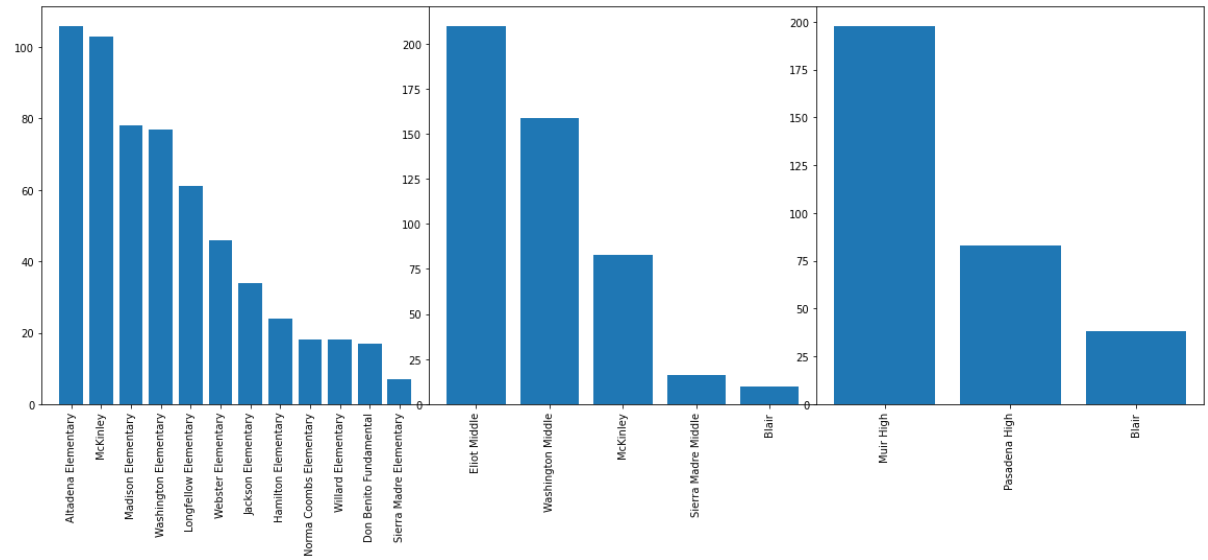
| Race | n | 1st | 2nd | 3rd | 4th | 5th | 6th |
|---|---|---|---|---|---|---|---|
| White | 261 | 89.66 | 8.81 | 1.53 | 0 | 0 | 0 |
| Black | 222 | 82.43 | 9.46 | 6.76 | 0.9 | 0.45 | 0 |
| Asian | 126 | 89.68 | 9.52 | 0.79 | 0 | 0 | 0 |
| Hispanic | 821 | 91.23 | 7.19 | 0.73 | 0.37 | 0.24 | 0.24 |
| multiple | 70 | 88.57 | 10.0 | 1.43 | 0 | 0 | 0 |
| none/other | 54 | 87.04 | 5.56 | 3.7 | 1.85 | 1.85 | 0 |

## 3.2 By Grade Level

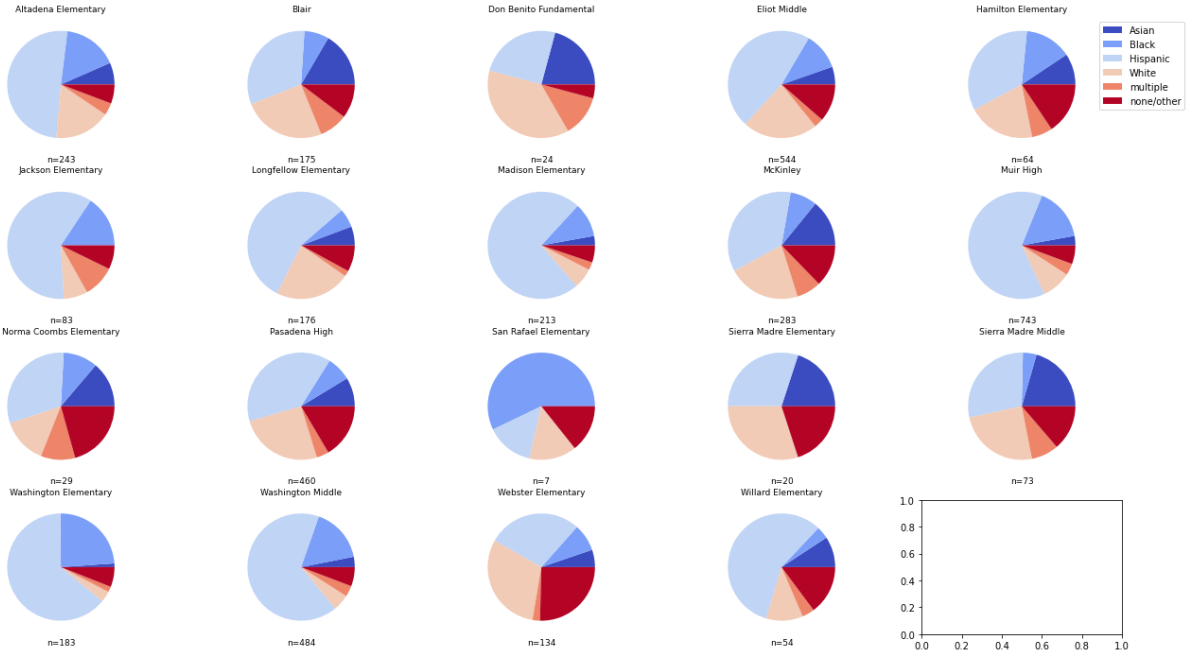
| Incoming Grade | n | 1st | 2nd | 3rd | 4th | 5th | 6th |
|---|---|---|---|---|---|---|---|
| K | 418 | 89.0 | 7.89 | 1.67 | 0.72 | 0.48 | 0.24 |
| 1 | 95 | 77.89 | 16.84 | 5.26 | 0 | 0 | 0 |
| 2 | 63 | 82.54 | 14.29 | 1.59 | 1.59 | 0 | 0 |
| 3 | 54 | 94.44 | 5.56 | 0 | 0 | 0 | 0 |
| 4 | 48 | 95.83 | 2.08 | 2.08 | 0 | 0 | 0 |
| 5 | 36 | 91.67 | 5.56 | 2.78 | 0 | 0 | 0 |
| 6 | 399 | 90.73 | 7.77 | 1.0 | 0.25 | 0.25 | 0 |
| 7 | 94 | 75.53 | 18.09 | 6.38 | 0 | 0 | 0 |
| 8 | 64 | 84.38 | 9.38 | 6.25 | 0 | 0 | 0 |
| 9 | 267 | 93.63 | 4.49 | 1.12 | 0.37 | 0.37 | 0 |
| 10 | 56 | 92.86 | 5.36 | 1.79 | 0 | 0 | 0 |
| 11 | 41 | 95.12 | 4.88 | 0 | 0 | 0 | 0 |
| 12 | 28 | 100.0 | 0 | 0 | 0 | 0 | 0 |

# 4. Neighborhood School Analysis

## 4.1 Distribution of neighborhood schools




## 4.2 Race breakdown

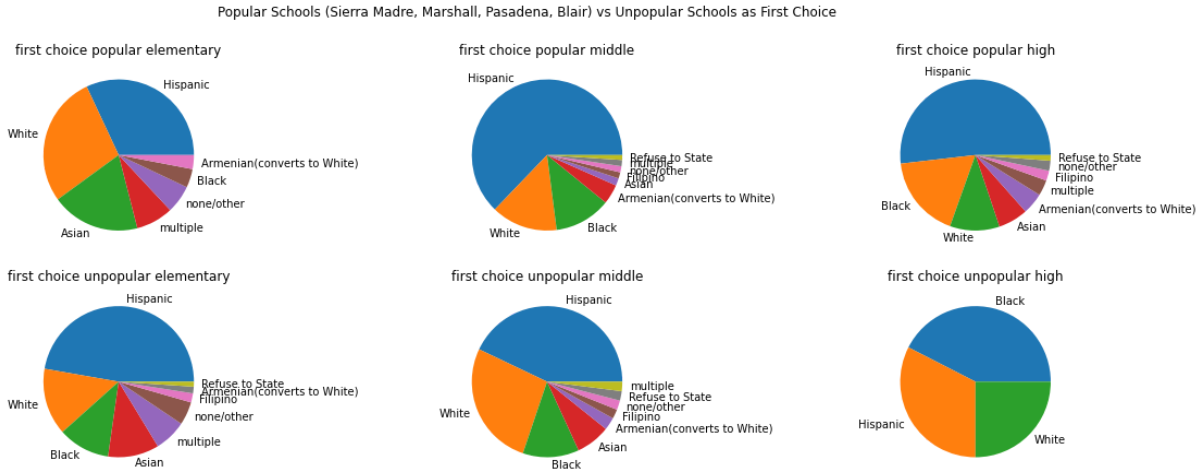

Altadena Elementary
Blair
Don Benito Fundamental
Eliot Middle
Hamilton Elementary
Asian
Black
Hispanic
White
multiple
none/other
n=243
Jackson Elementary
n=175
Longfellow Elementary
n=24
Madison Elementary
n=544
McKinley
n=64
Muir High
n=83
Norma Coombs Elementary
n=176
Pasadena High
n=213
San Rafael Elementary
n=283
Sierra Madre Elementary
n=743
Sierra Madre Middle
n=29
Washington Elementary
n=460
Washington Middle
n=7
Webster Elementary
n=20
Willard Elementary
n=73
n=183
n=484
n=134
n=54
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0

# Summary Statistics of Initial Data

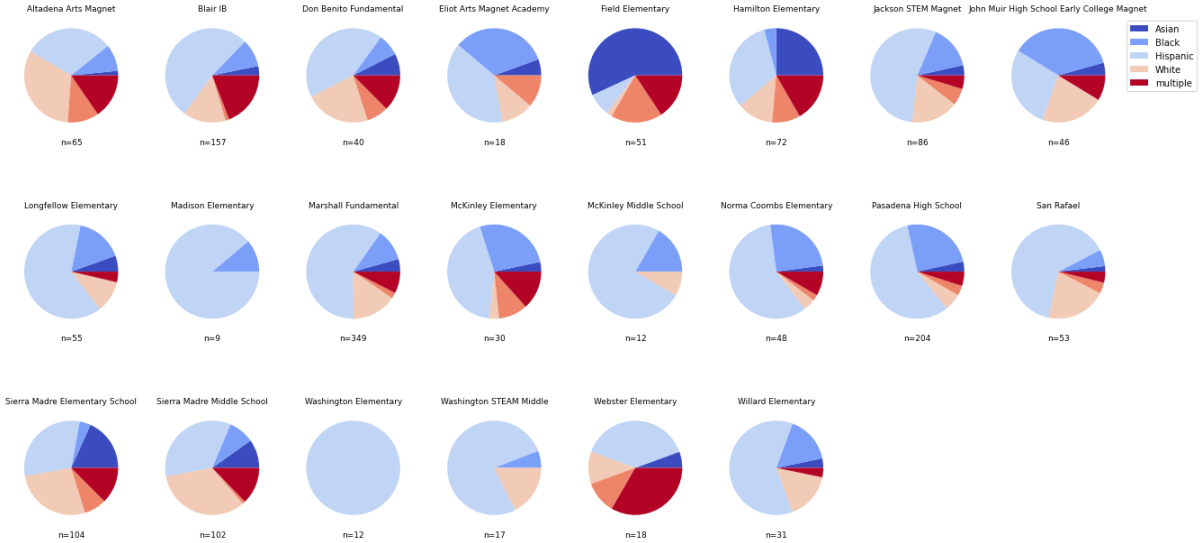
comes from anonymous and sibling datasets

## 1. Lottery First Choice

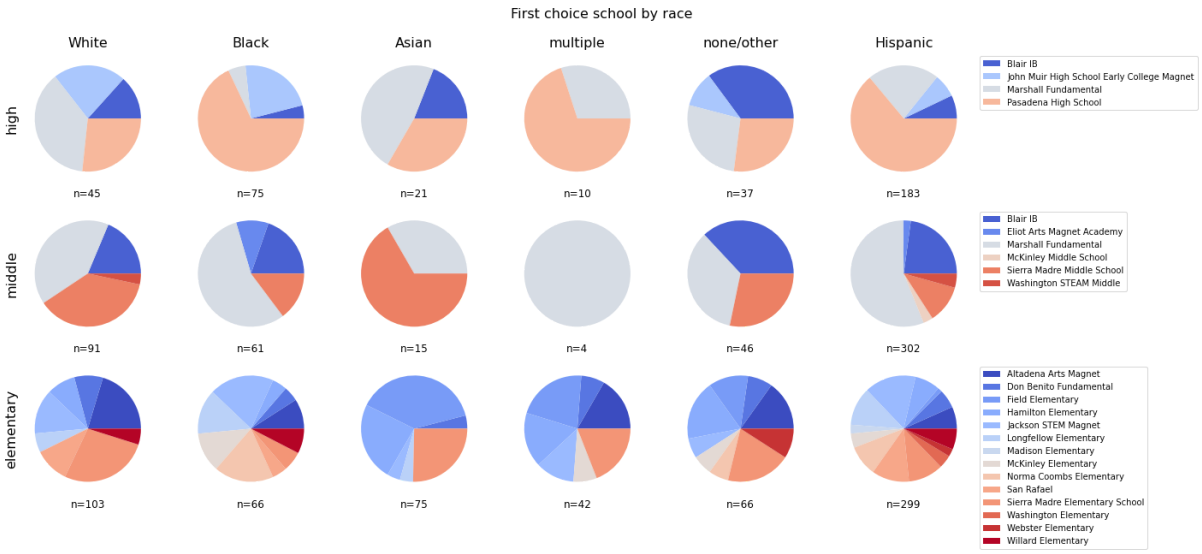
```
Top Choice for Students

elementary
Sierra Madre Elementary School: 104 (15.43%)
Jackson STEM Magnet: 86 (12.76%)
Hamilton Elementary: 72 (10.68%)
Altadena Arts Magnet: 65 (9.64%)

middle
Marshall Fundamental: 265 (49.91%)
Blair IB: 117 (22.03%)
Sierra Madre Middle School: 102 (19.21%)
Eliot Arts Magnet Academy: 18 (3.39%)

high
Pasadena High School: 204 (54.55%)
Marshall Fundamental: 84 (22.46%)
John Muir High School Early College Magnet: 46 (12.3%)
Blair IB: 40 (10.7%)
```



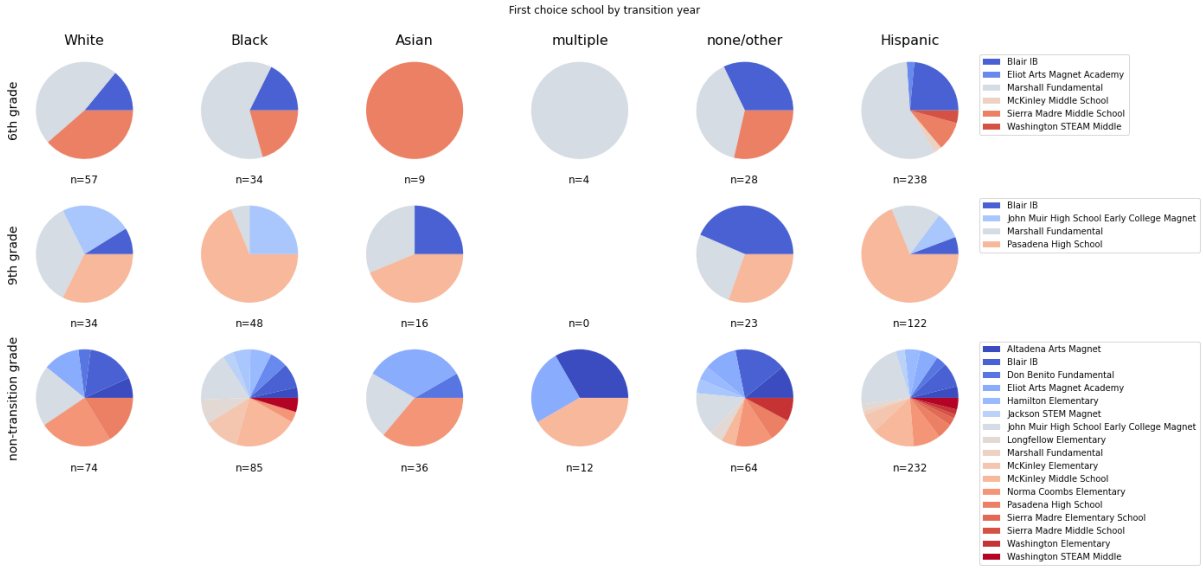

## 1.1 First Choice Race distribution by School



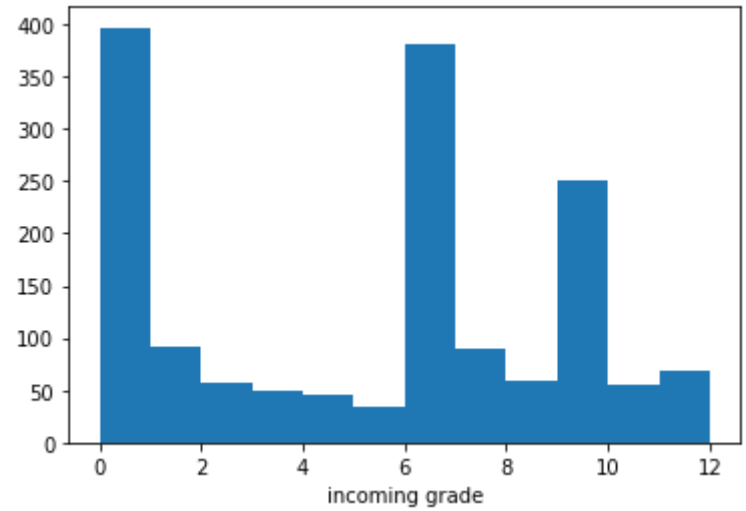

## 1.2 First Choice School by Race



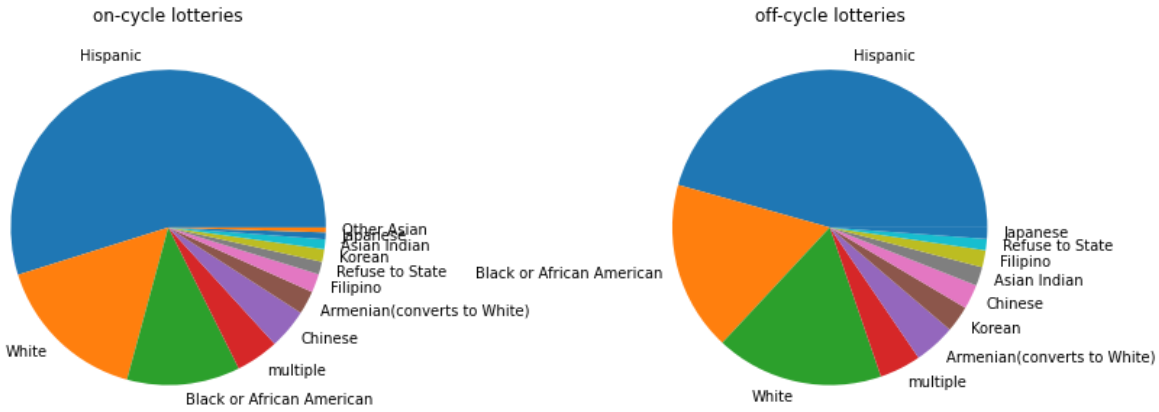

## 1.3 Transition Years: 6th grade, 9th grade, and nontransition years




## 2. Distribution of Grade Levels




We can call the people going to grades K, 6, 9 as "on cycle". Everyone else in the lottery is "off-cycle". Is there a difference demographically?




## 3. Lottery Result Quality

What proportion of certain demographics get their Nth choice?

## 3.1 By Race

| Race | n | 1st | 2nd | 3rd | 4th | 5th | 6th |
|---|---|---|---|---|---|---|---|
| White | 259 | 89.58 | 8.88 | 1.54 | 0 | 0 | 0 |
| Black | 216 | 81.94 | 9.72 | 6.94 | 0.93 | 0.46 | 0 |
| Asian | 126 | 89.68 | 9.52 | 0.79 | 0 | 0 | 0 |
| Hispanic | 810 | 91.11 | 7.28 | 0.74 | 0.37 | 0.25 | 0.25 |
| multiple | 68 | 88.24 | 10.29 | 1.47 | 0 | 0 | 0 |
| none/other | 52 | 86.54 | 5.77 | 3.85 | 1.92 | 1.92 | 0 |

## 3.2 By Grade Level

| Incoming Grade | n | 1st | 2nd | 3rd | 4th | 5th | 6th |
|---|---|---|---|---|---|---|---|
| K | 414 | 88.89 | 7.97 | 1.69 | 0.72 | 0.48 | 0.24 |
| 1 | 95 | 77.89 | 16.84 | 5.26 | 0 | 0 | 0 |
| 2 | 62 | 82.26 | 14.52 | 1.61 | 1.61 | 0 | 0 |
| 3 | 52 | 94.23 | 5.77 | 0 | 0 | 0 | 0 |
| 4 | 46 | 95.65 | 2.17 | 2.17 | 0 | 0 | 0 |
| 5 | 36 | 91.67 | 5.56 | 2.78 | 0 | 0 | 0 |
| 6 | 394 | 90.61 | 7.87 | 1.02 | 0.25 | 0.25 | 0 |
| 7 | 94 | 75.53 | 18.09 | 6.38 | 0 | 0 | 0 |
| 8 | 62 | 83.87 | 9.68 | 6.45 | 0 | 0 | 0 |
| 9 | 259 | 93.44 | 4.63 | 1.16 | 0.39 | 0.39 | 0 |
| 10 | 56 | 92.86 | 5.36 | 1.79 | 0 | 0 | 0 |
| 11 | 41 | 95.12 | 4.88 | 0 | 0 | 0 | 0 |
| 12 | 28 | 100.0 | 0 | 0 | 0 | 0 | 0 |