# People Analytics Case Study

#### Given the provided dataset, how can we increase:

series 7 exam pass rates? efficiencies in the recruiting and training process?

#### This case study includes:

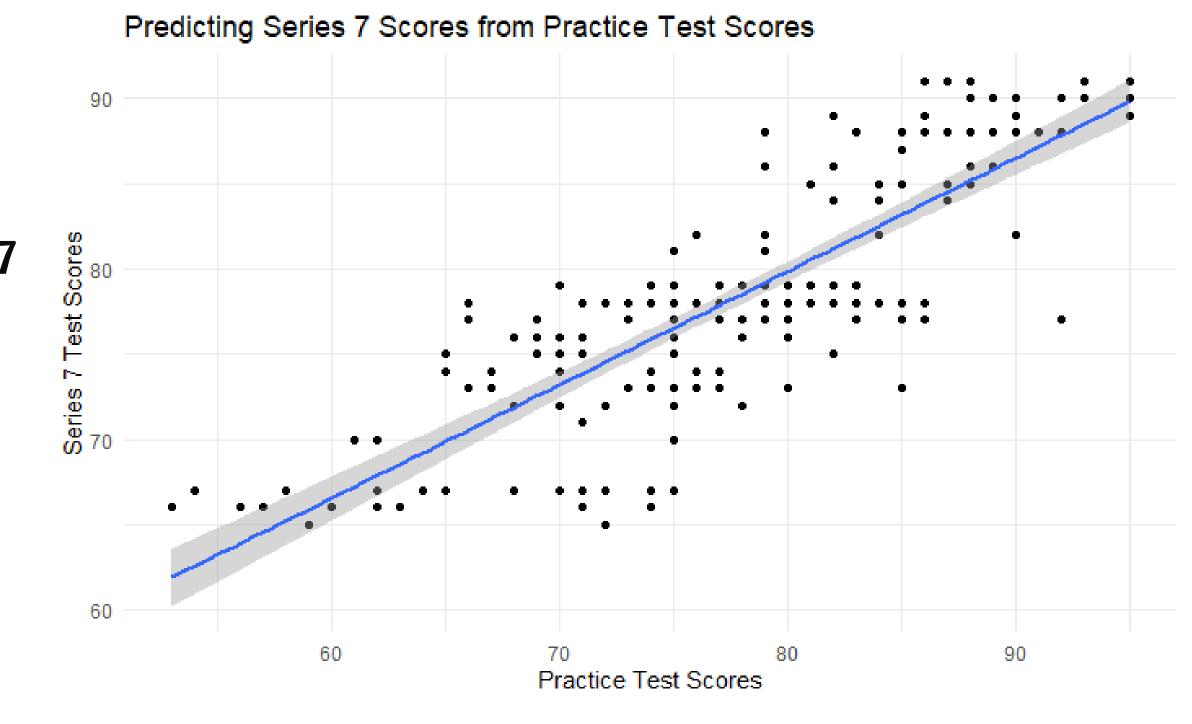
recommendations for above questions summary of findings

## Case Study Highlights

#### **Question:**

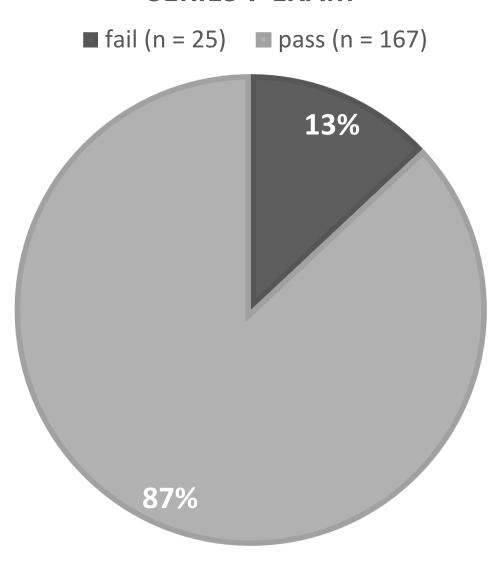
## How can we increase Series 7 exam passing rates?

Potential answer:
Add more practice tests.
Practice test scores were the greatest predictor of Series 7 exam scores.

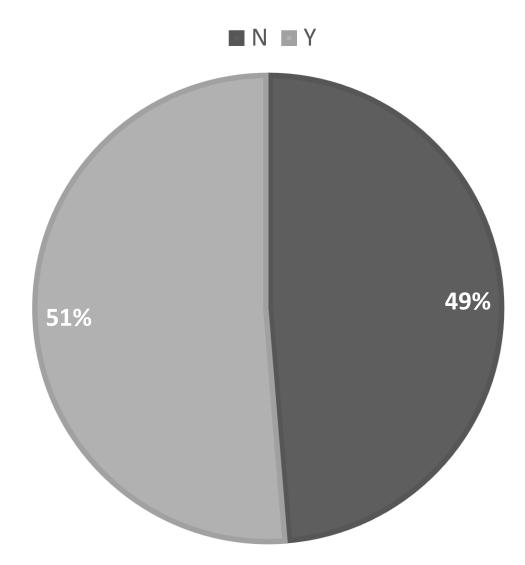


Acceptable pass rate for prior Series 6 and 63 Exams = 93% (6% improvement needed)

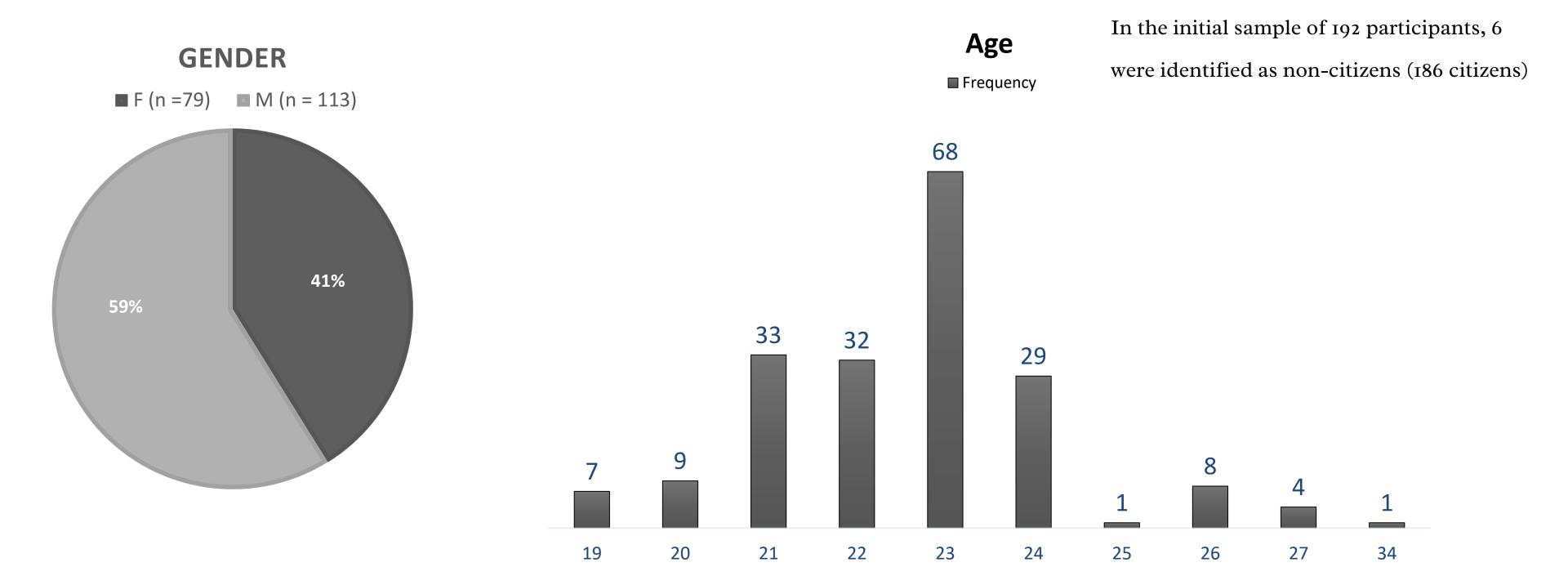
#### **SERIES 7 EXAM**



#### **FINANCE OR MATH MAJOR**



Whether a new hire was a Finance or Math major also predicted success on the Series 7 exam, but did not account for much more prediction above and beyond practice test scores



#### **Question:**

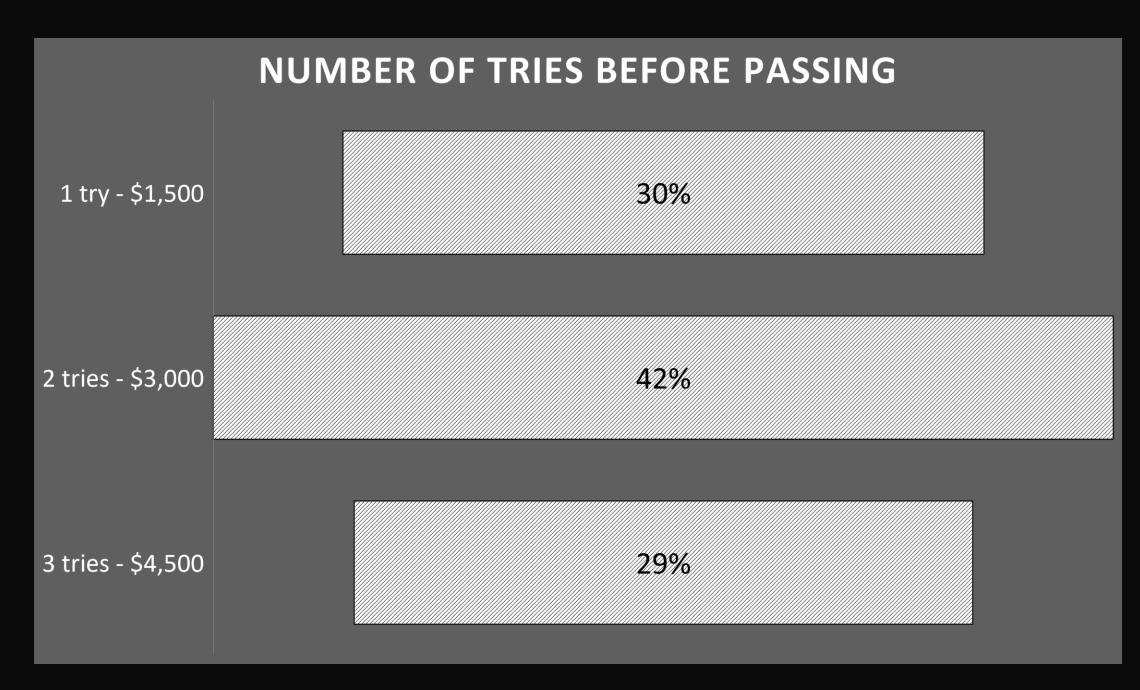
How can we increase efficiency in the recruiting and training process?

#### Reduction of failure rates

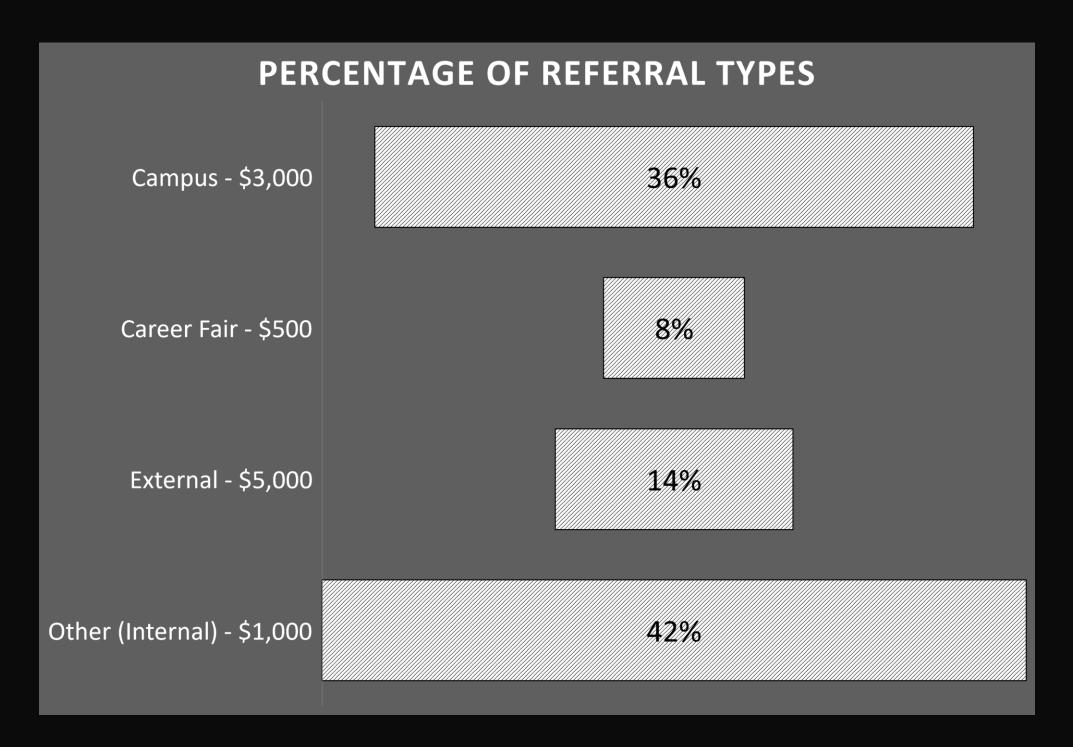
Since practice test scores predict Series 7 exam scores with a high level of confidence, we can reduce failure rates by implementing more practice tests

#### Cost projections

<b>Current Training Costs</b>	Efficient State (1 try)
\$2,984,375	\$1,500,000
Difference	Percent Difference
\$1,484,375	-49.7%



### Training Cost Efficiency



Referral type did not predict success on the Series 7 exam.

Therefore, we may seek efficiencies here by simply reducing cost.

We may achieve this by eliminating external referrals (highest cost) and substituting career fair referrals (lowest cost).

<b>Current Referral Costs</b>	Efficient State
\$2,235,602	\$1,599,476
Difference	Percent Difference
\$636,126	-28.45%







Total new hires: 1000

Average Salary: \$50,000

Total Cost = Training + Referral Costs

	Current	With training efficiency only	With referral efficiency only	With both efficiencies
Total cost per new hire				
(Averaged)	\$5,220	\$3,736	\$4,584	\$3,099
As percentage of salary				
	10.44%	7.47%	9.17%	6.20%

### Cost Summary

## Thank you

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