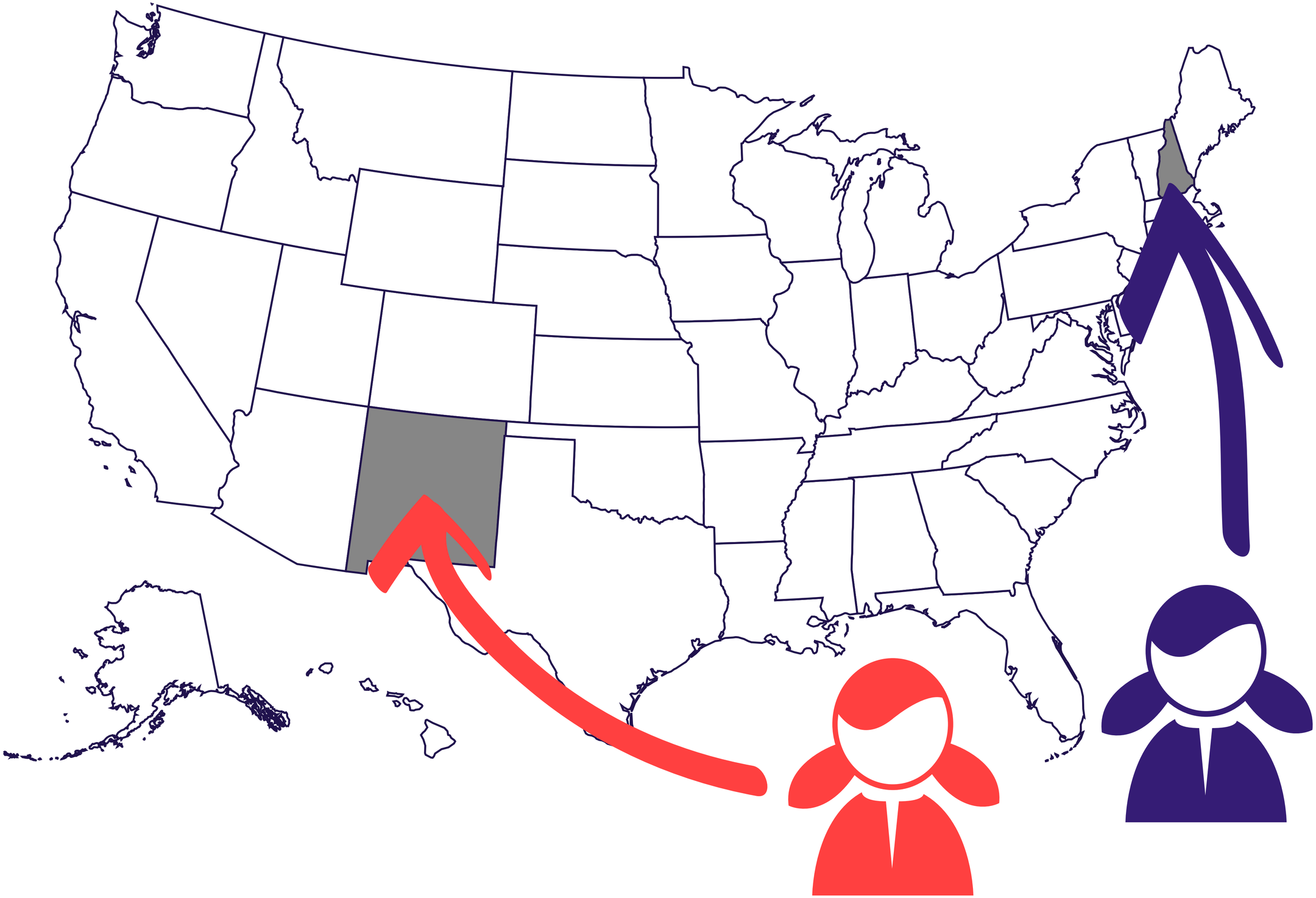
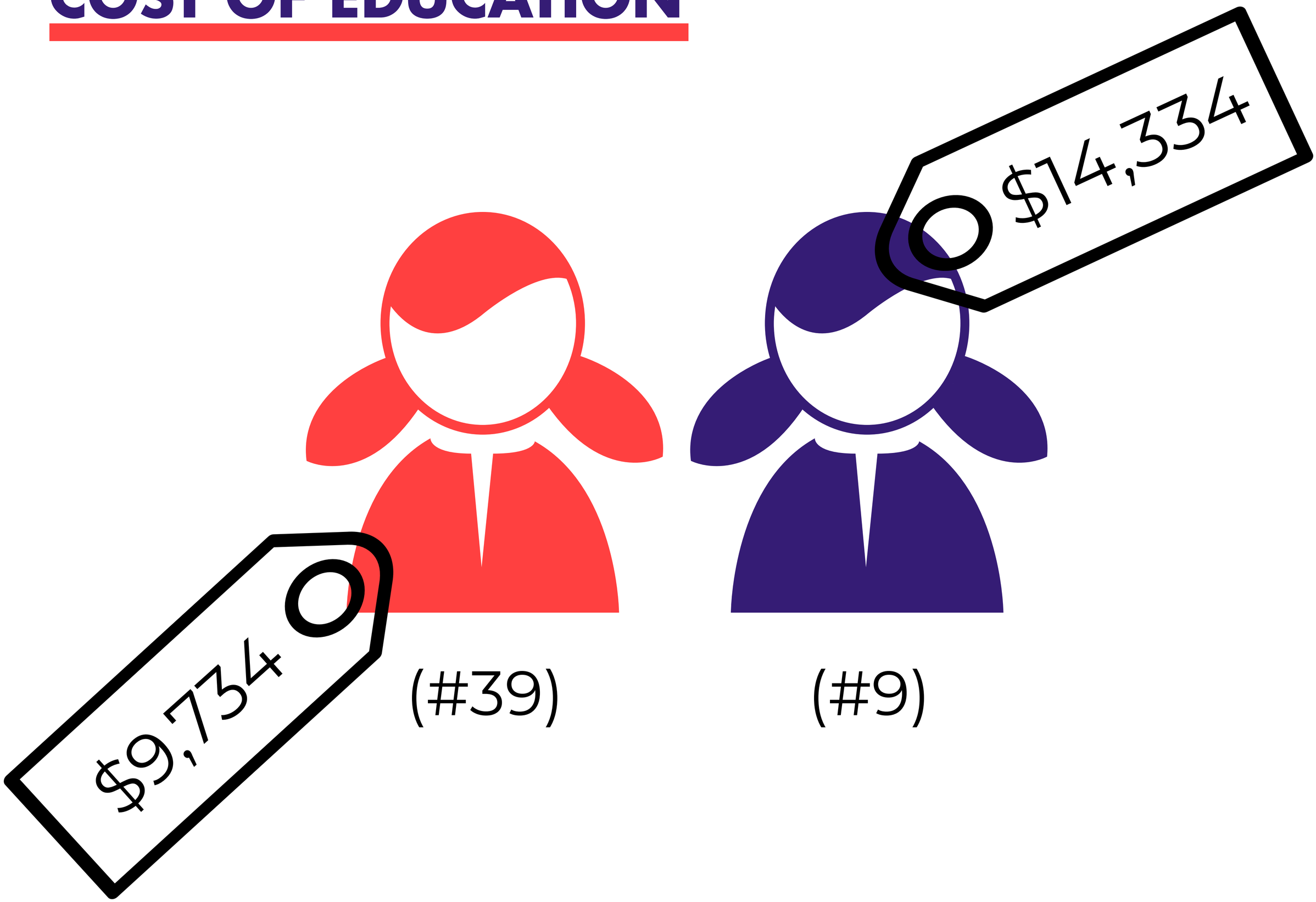
The United States of Unequal Education

A Presentation by Amy Curneen

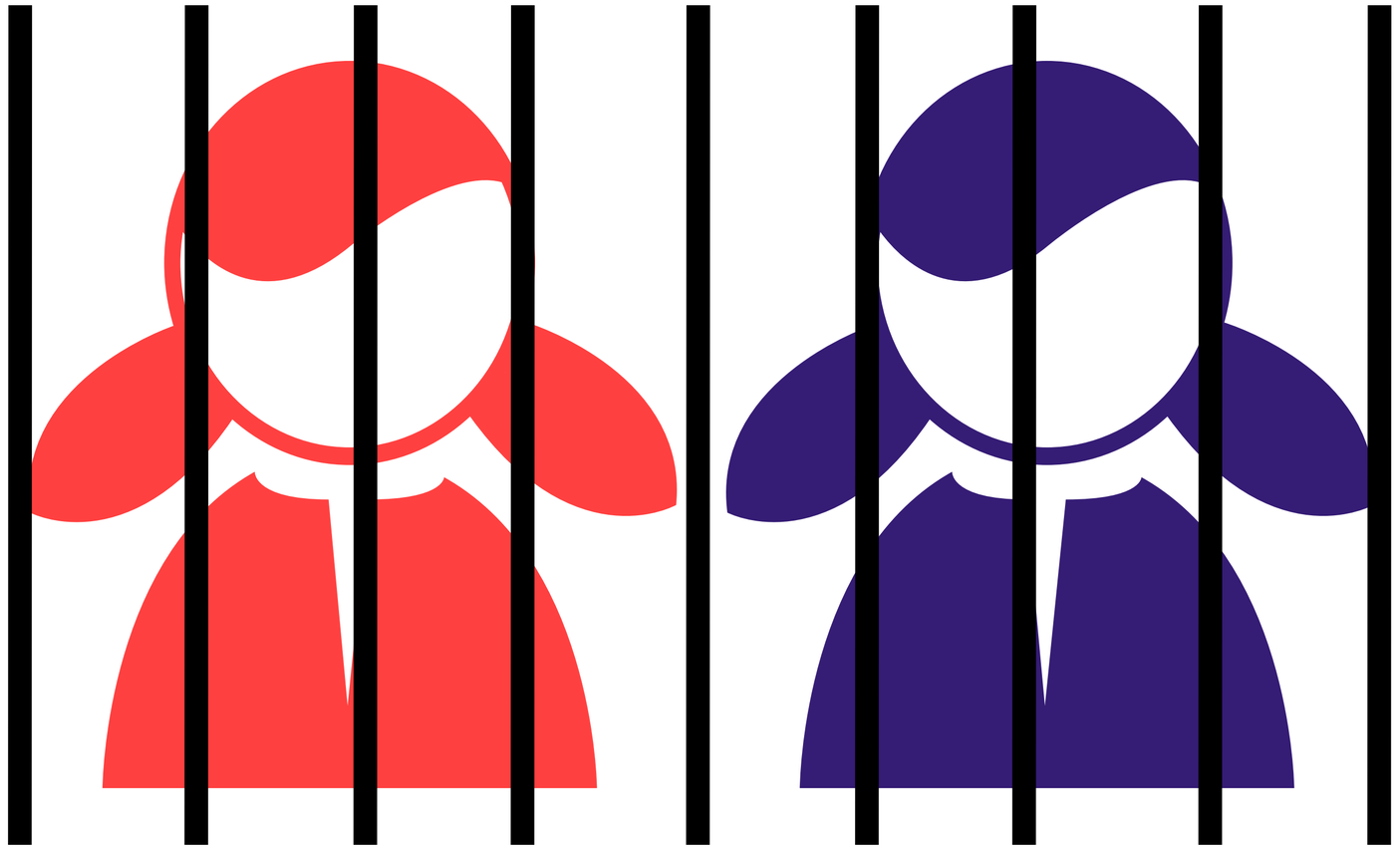


POTENTIAL FACTORS

COST OF EDUCATION



RATE OF INCARCERATION



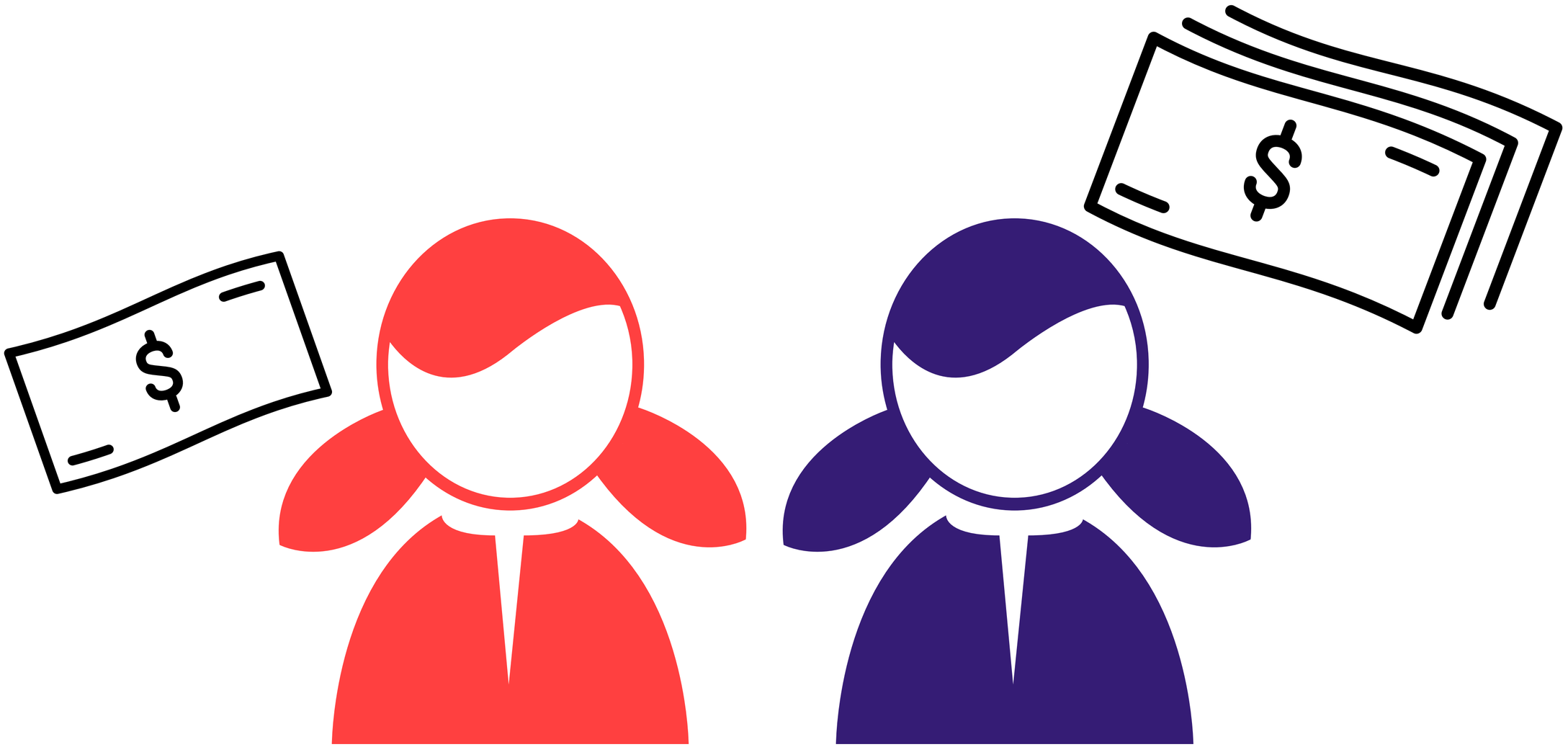
(#38)

980 per 100,000

(#2)

460 per 100,000

MEDIAN INCOME



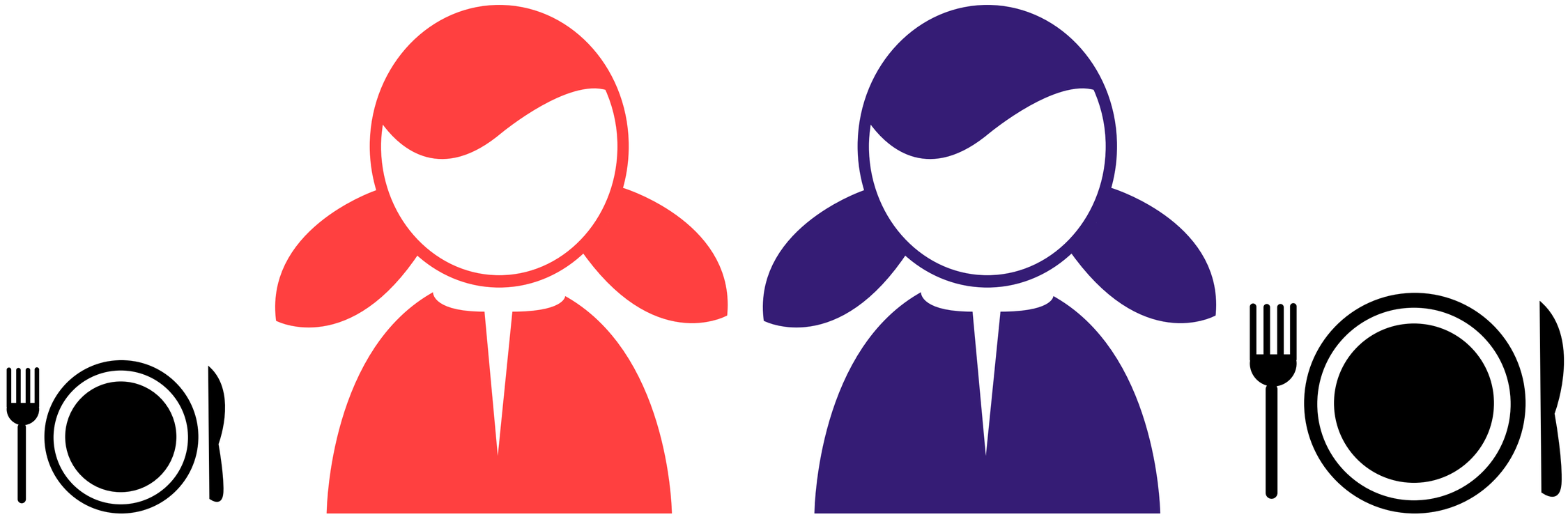
(#43)

$45,342/yr

(#7)

$70,263/yr

PERCENT UNDER POVERTY LINE



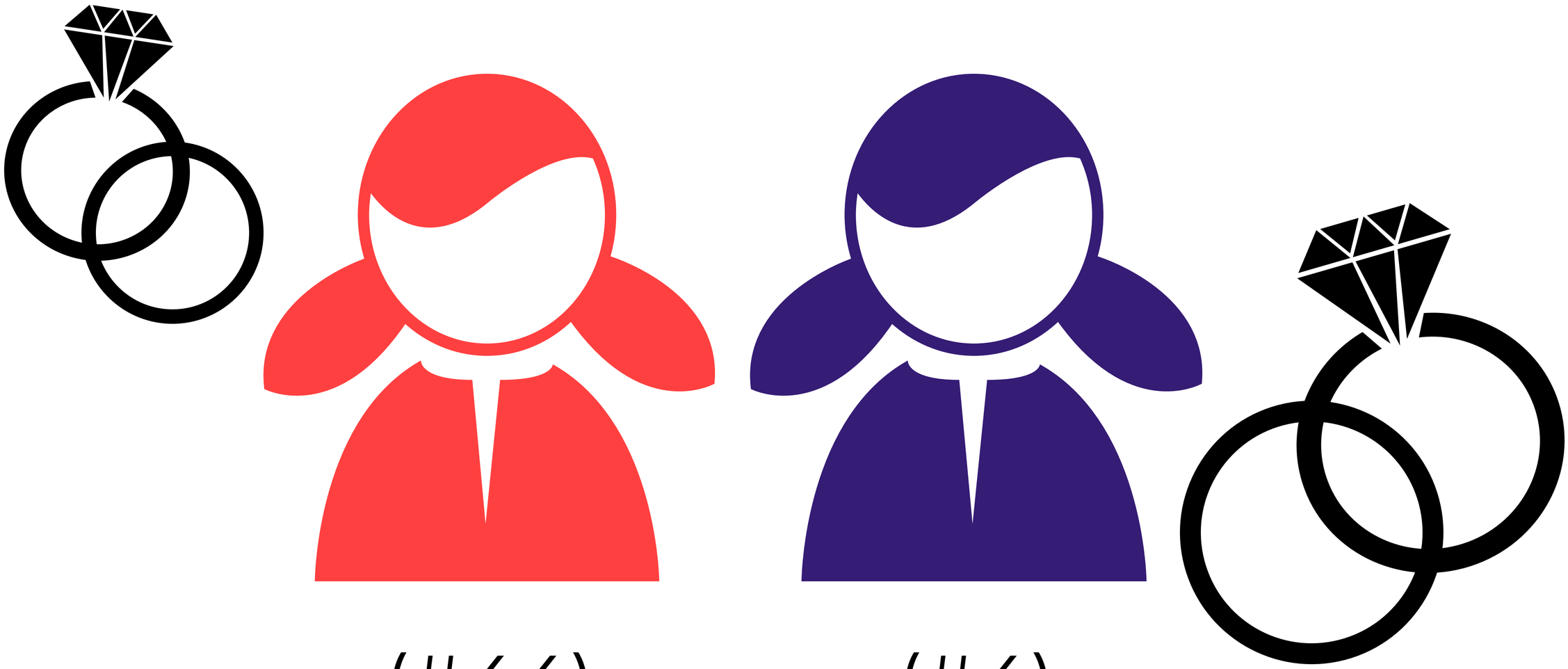
(#46)

20.6%

(#1)

9.2%

PERCENT WITH MARRIED PARENTS



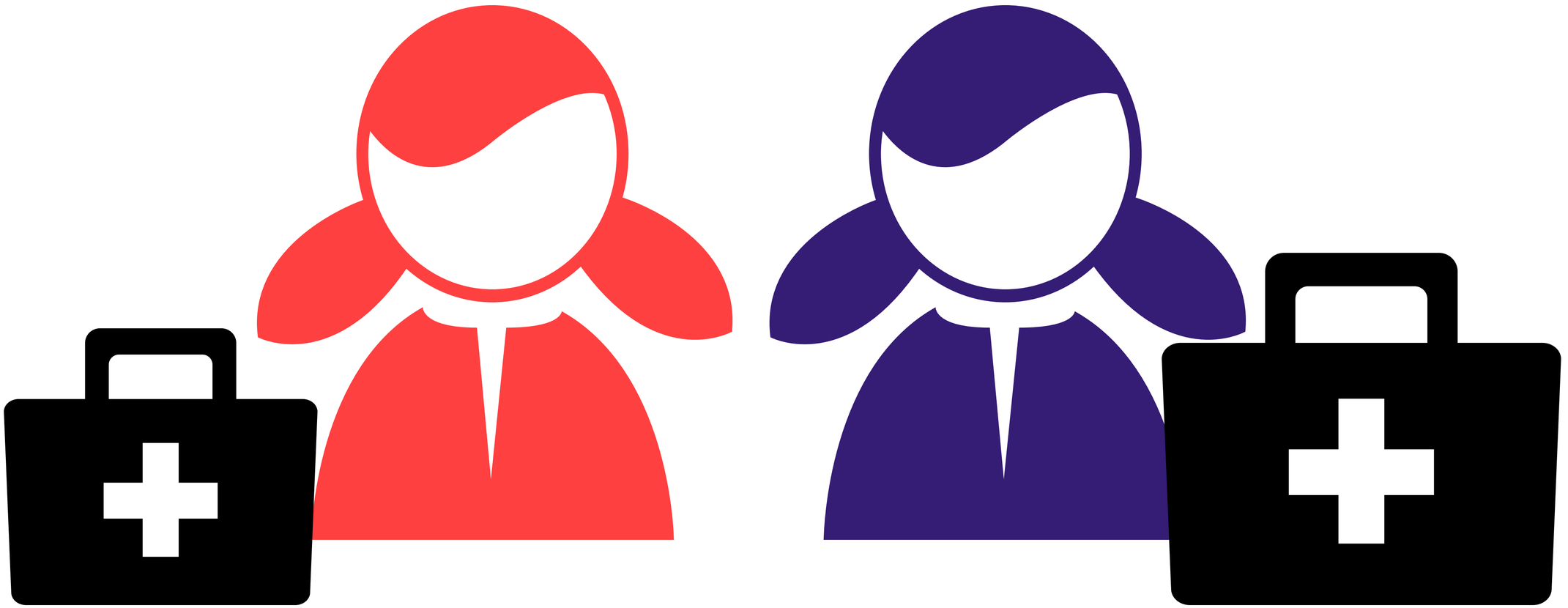
(#44)

39%

(#4)

53%

HEALTHCARE



(#27)

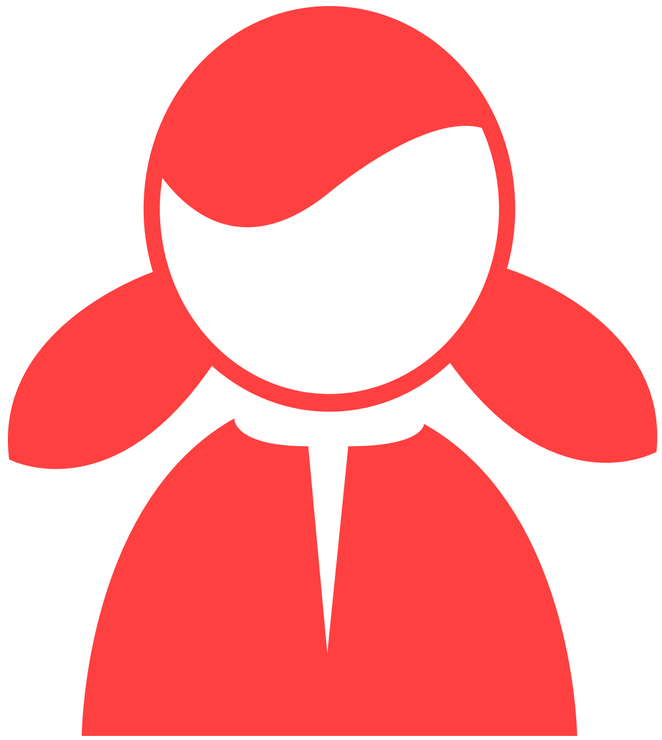
65.54

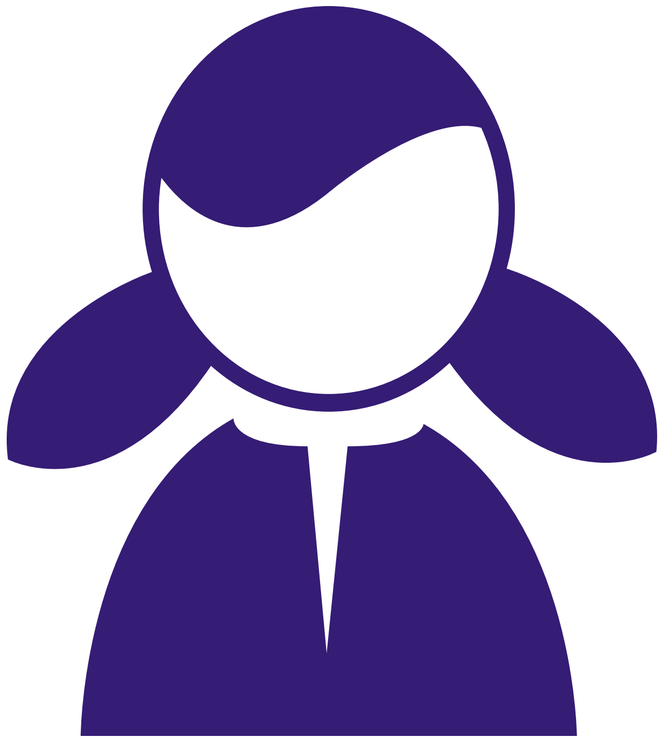
(#4)

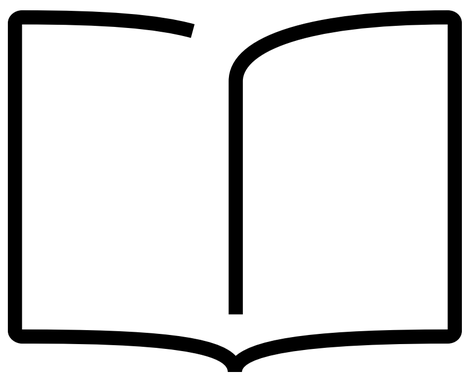
53.83

New Hampshire or New Mexico?

EDUCATION SCORE





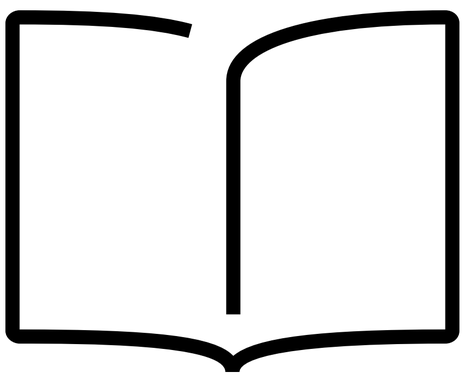


(#44)

34.79

(#4)

64.65



TOOLS UTILIZED

Normalization
Polynomial Transformation
Train - Validate - Test
ElasticNetCV

MODELING

Budget

Median Income

Incarceration

Marriage

Poverty

Healthcare

FINAL FEATURES

MODEL PERFORMANCE

Alpha:	2520
Lasso Ratio:	0.99
R Squared:	0.51
Adjusted R Squared:	0.42
Root Mean Square Error:	4.4

NEXT STEPS

More years of data

Categorical data features

Develop an infographic

THANK YOU

MODEL COEFFICIENTS

1.20e-06
Number_of_incarceration^2

-0.0015
Number_of_incarceration Percent_poverty

0.00021
Number_of_incarceration Overall_score_H