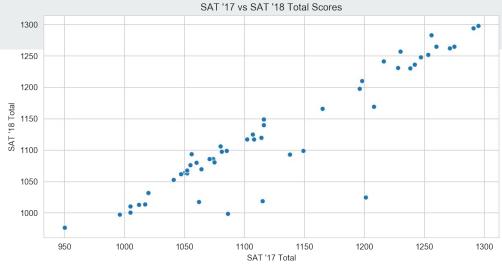
SAT & ACT Analysis

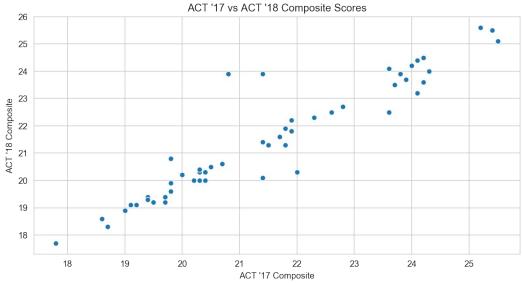
Problem Statement

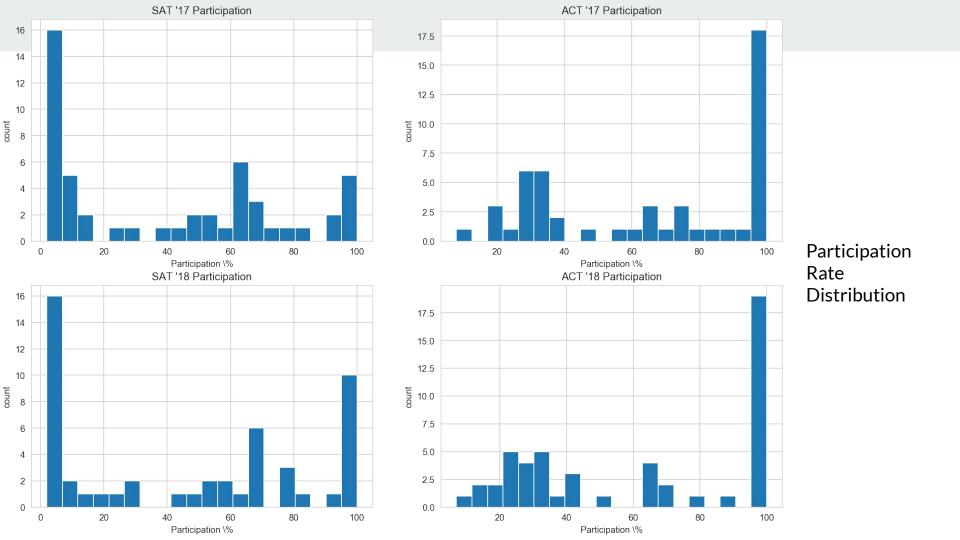
SAT participation rates are behind ACT participation rates in the USA on a state level. Our department has been given funds to increase the participation rate and we need to know where best to invest the fund to increase our participation rates.

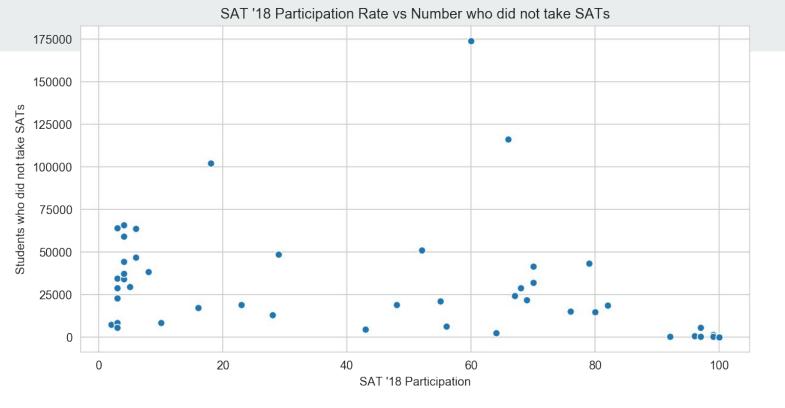
	Correlation Heatmap		
s17_Participation			
s17_English	-0.9		
s17_Math	-0.9 1.0	- 0.8	
s17_Total	0.9 1.0 1.0		Heatmap
a17_Participation	-0.8 0.7 0.7 0.7		Heatinap
a17_English	0.7 0.5 0.4 0.4 0.8		
a17_Math	0.7 0.5 0.4 0.5 0.9 1.0		
a17_Reading	0.7 0.5 0.4 0.5 0.9 1.0 1.0	- 0.4	
a17_Science	0.7 0.4 0.4 0.4 0.8 1.0 1.0 1.0	- 0.4	Subject scores have high negative correlation
a17_Composite	0.7 0.5 0.4 0.4 0.9 1.0 1.0 1.0 1.0	\	with participation rates
s18_Participation	0.9 0.8 0.8 0.8 0.7 0.7 0.7 0.7 0.6 0.7		
s18_English	08 09 09 09 06 04 04 05 04 09		ACT and CAT neutral nation have high negative
s18_Math	07 09 09 09 06 04 03 04 03 04 08 10		ACT and SAT participation have high negative
s18_Total	0.7 0.9 0.9 0.9 0.6 0.4 0.4 0.4 0.3 0.4 0.9 1.0 1.0	- 0.0	correlation
a18_Participation	0.8 0.7 0.7 0.9 0.8 0.8 0.8 0.8 0.8 0.7 0.7 0.7		
a18_Composite	06 -04 -0.4 -0.4 -0.8 0.9 0.9 0.9 0.9 0.7 -0.5 -0.4 -0.4 -0.9	_	Subjects within the same group of tests have
a18_English	06 04 04 0.4 0.8 0.9 0.9 0.9 0.9 0.7 0.5 0.4 0.5 0.9 1.0		nigh positive correlation
a18_Math	06 05 04 04 08 09 09 09 09 07 05 04 04 09 10 10	'	light positive contenation
a18_Reading	07 05 04 04 08 09 09 09 09 07 05 04 05 09 10 10	0.4	
a18_Science	06 04 04 04 08 09 09 09 09 07 05 04 04 08 10 10 10	-	PSAT participation has a positive correlation
p17_Participation	04 05 05 05 02 00 00 01 00 05 06 06 06 03 00 01 00 00	\	with future SAT participation
p17_English	0.7 0.8 0.8 0.8 0.7 0.4 0.5 0.5 0.4 0.5 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.4 0.4 0.5 0.4 0.4		
p17_Math	07 08 09 09 06 04 04 04 03 04 07 08 08 08 06 03 04 03 05 09		
p17_Total	0.7 0.9 0.8 0.9 0.7 0.4 0.5 0.4 0.4 0.4 0.7 0.8 0.8 0.8 0.7 0.4 0.4 0.4 0.4 0.4 0.4 1.0 1.0	0.8	
s17_PSAT	0.4 0.3 0.3 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2		
	s17_English s17_English s17_English s17_Total s17_Total s17_English s17_English s17_English s17_English s18_English s18_Englis		
	s17_Na s17_Englis s17_Inda s17_Englis s17_Inda s17_Englis s17_Inda s17_Englis s17_Inda s17_Readin s18_Englis s		
	in a series of the series of t		

Test Score Correlations



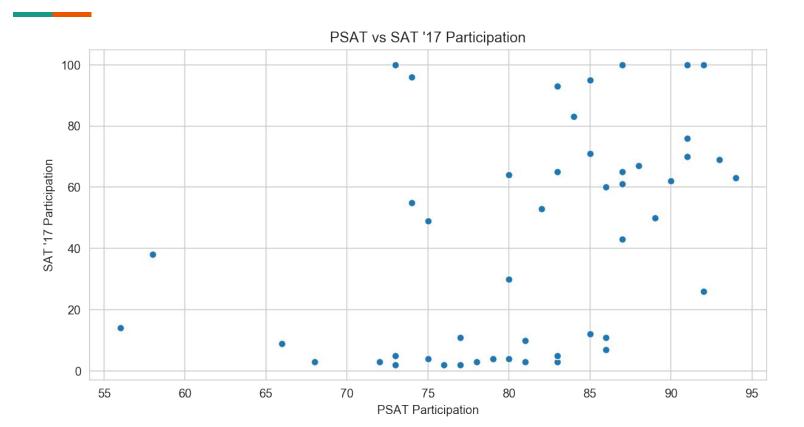






Rate is not Numbers!

Influence of PSAT on SAT participation



Conclusion

- 1. Statewide assessment contracts
- 2. 'SAT School Days'
- 3. Value-add to candidates
- 4. Promote PSAT