


Fate of the variables in your final Backwards model (put an " $X$ " in the appropriate box for excluded or included)


Why do you suppose SPSS didn't dump everything you thought it would?


How many models did SPSS build using the Forward method?

How many $X$ variables did SPSS put into the final model?


Fill out this model (3 decimal places) for that last model built by SPSS going forward (use the same $X$ variable numbers again).


Fate of the variables in your final Forward model (you only need $t$ and sig $t$ for the included variables and can leave others blank)


Use 3 decimal places of accuracy

Put an " $X$ " under excluded or included as appropriate

Kitchen sink using takesat for the $Y$ variable


Backwards elimination and kids taking the SATs
How many models did SPSS build using the Backwards method?


How many $X$ variables did SPSS leave in the final model?
Fill out the model with the fewest variables: (try to keep original $X_{i}$ numbers, skipping unused variables)


Fate of the variables in your final Backwards model (only need $t$ and sig $t$ for the included variables)


Put an " $X$ " under excluded or included as appropriate

How many models did SPSS build using the Forward method? $\square$
How many X variables did SPSS put into the final model? $\square$
Fill out the model with the fewest variables (entering only those $X$ variables it kept):


Fate of the variables in your final Forward model (you only need $t$ and sig $t$ for the included variables)


Put an "X" under excluded or included as appropriate

Interpretation of student performance on the SATs

Why is there a significant negative relationship between the percentage of students taking the SAT and the average performance on the SAT?


In light of this, why is there a significant negative association between expenditures per student and SAT performance?


Again in light of this, why is there a significant negative association between teacher pay and student performance on the SATs?


Why is there no significant association between student:faculty ratio and anything else?


Of the three multiple regression models you built to explain student performance on the SATs, which one makes the most sense to you

## Interpretation of students taking the SATs

Using the correlations table, what is the association between:
expenditures per student and percentage of students taking the SAT?
student to faculty ratio and percentage of students taking the SAT?
teacher pay and percentage of students taking the SAT?

Pearson's


Why does expenditure per student drop out in the multiple regression models?


Which of the three multiple regression models you built to explain the percentage of students taking the SATs makes the most sense to you theoretically? Again, be sure to consider everything on the list of hints (e.g., diagnostics, simplicity)


## Science meets policy

If you were a conservative Republican wanting to reduce government spending, what would you pick out of this analysis and turn into a helpful slogan?
$\square$
If you were a teacher's union representative, what would you pick out of this study that might make some great placards for the picket line?

You can put "overflow" answers in here (please include page number of question)

