Name: _____
Date: _____

Percent change and range

1. The following fictitious data show the state testing scores for the students of four teachers. The district is especially concerned about the range of student outcomes; the administrators would like to see the gap between the top student of a teacher and the bottom student for the same teacher shrink compared to last year.

Teacher	Worst score last year	Best score last year	Range last year	Worst score this year	Best score this year	Range this year	% change in range
A	52	90	38	52	88	36	-5.3%
B	60		34	62	99		
C	43			43	72		-14.7%
D	65	94		66			-10.3%

A. Fill in the table for the remaining values.

B. Which teacher(s) saw an improvement in the top score from last year to this year? Which teacher(s) saw an improvement in the bottom score?

C. Which teacher(s) saw the best score decrease from last year to this year? Which teacher(s) saw the worst score decrease?

D. Which teacher had the *lowest* best score last year? this year?

E. Which teacher had the *highest* worst score last year? this year?

F. Which teacher had the most negative percent change in the range of student outcomes?

G. Based on your answers above, make a case for whether the district should use the percent change of range as a way to evaluate teachers. How would you rank these teachers from best to worst instead?