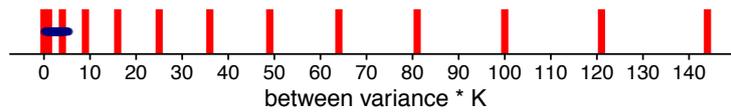


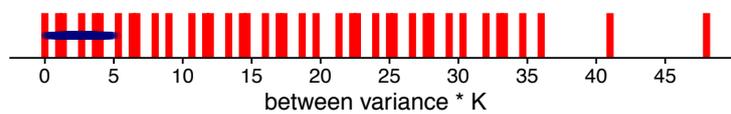
## PART II

The figures below show the options for the between variance \*  $K$  (red vertical lines) for respectively 24 and 48 items and varying sizes  $K$ , compared to the simulated error variances of the 1,000 examinees (blue dots). Generally, when either  $K$  is small or the number of items within  $K$  is small, there are the fewest options for the between variance. It is therefore advisable to balance the number of items and  $K$ .

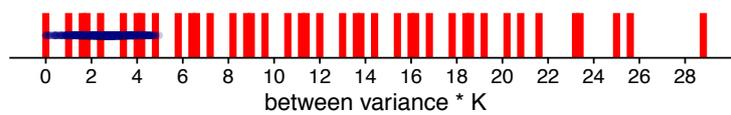
### 24 items



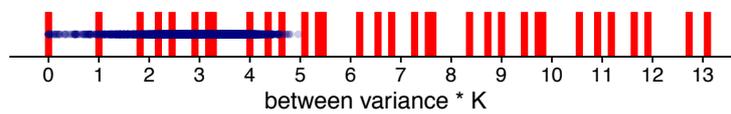
$K = 2$



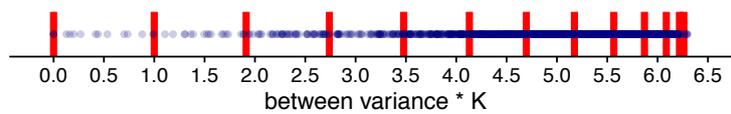
$K = 4$



$K = 6$

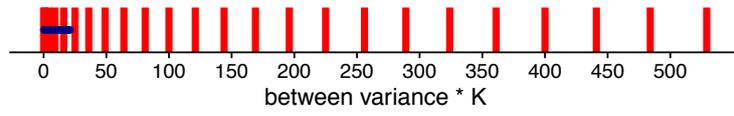


$K = 12$

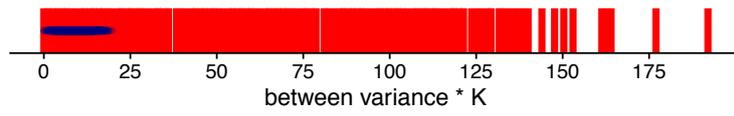


$K = 24$

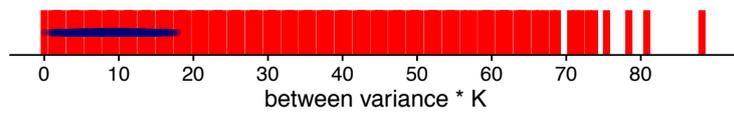
48 items



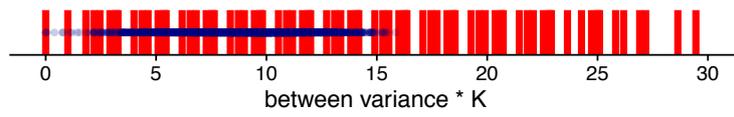
$K = 2$



$K = 4$



$K = 6$



$K = 12$

