

Kuder–Richardson Formula 20

Test: Kuder–Richardson Formula 20

Design: Internal consistency of six unequal–difficulty binary support/intention items.

Variables: schoolsup, famsup, paid, activities, higher, internet

Null hypothesis: The binary composite has no internal–consistency reliability.

Formula: $KR-20 = k/(k-1)[1 - \sum p_i q_i / s_{total}^2]$.

Source rows: 649

Calculated metrics:

kr20: 0.212649121395276

items: 6

n_cases: 649

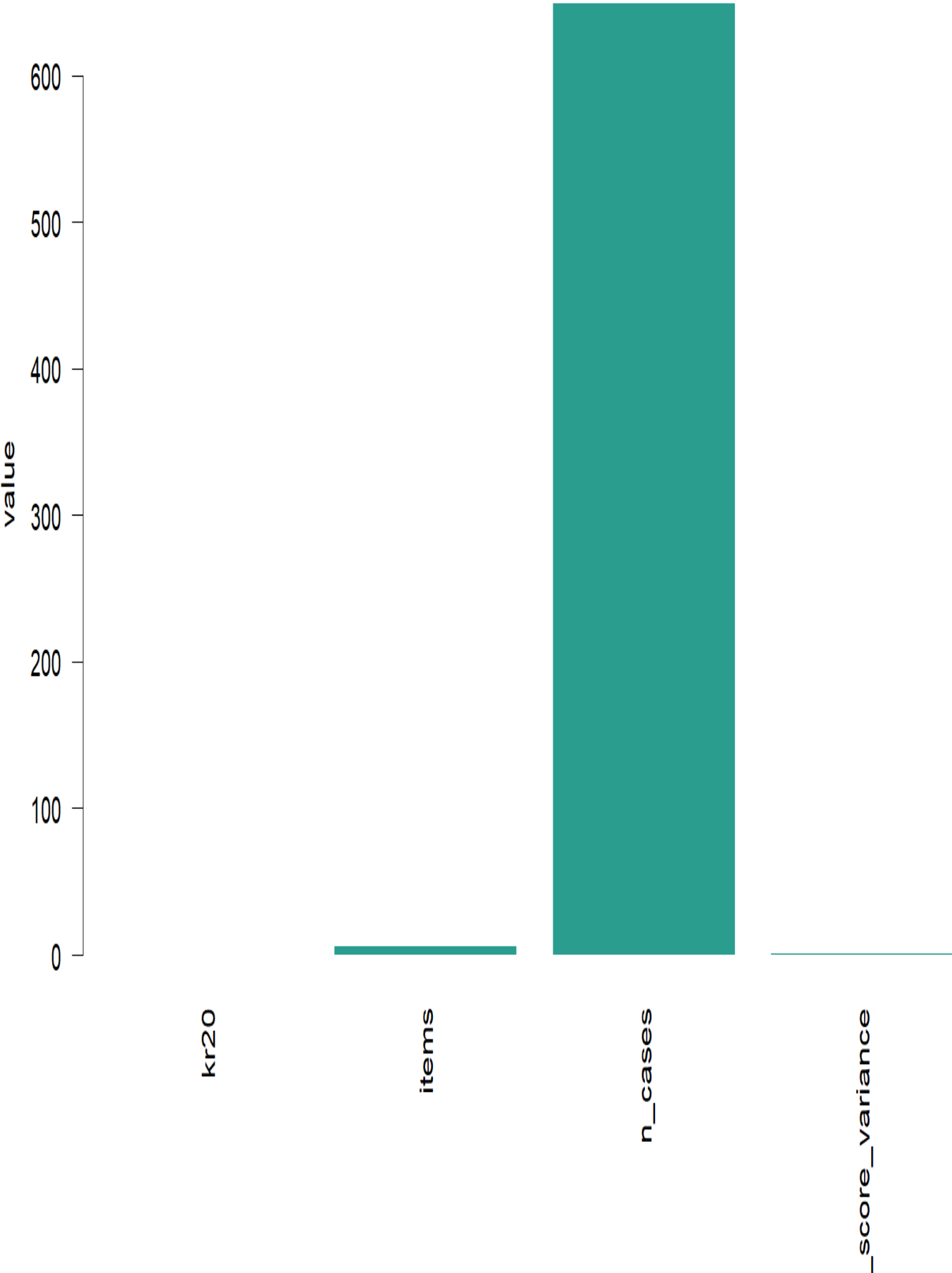
total_score_variance: 1.10694515779262

Interpretation:

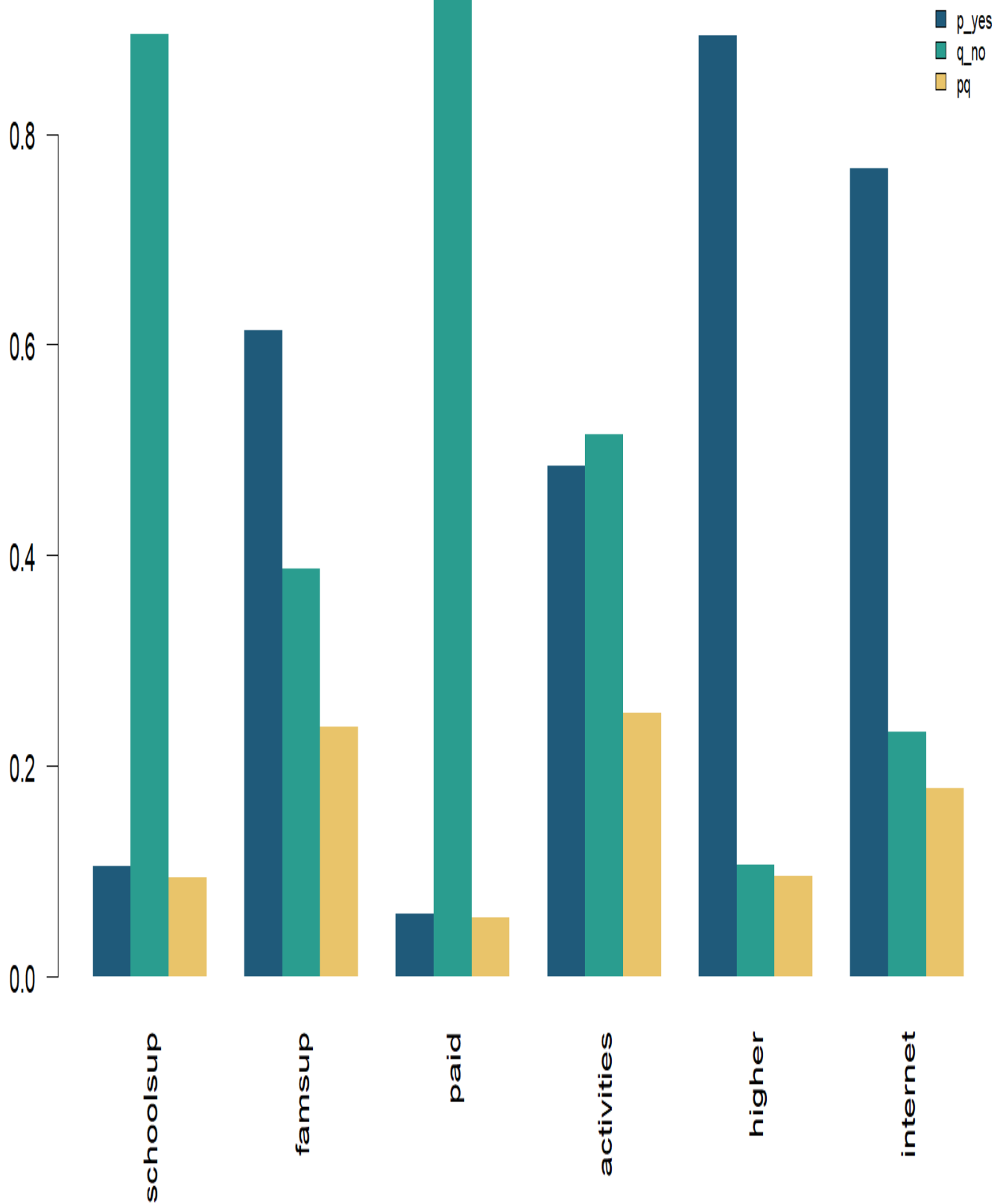
KR–20 retains each binary item's own p times q contribution.

KR–20 0.212649121395276

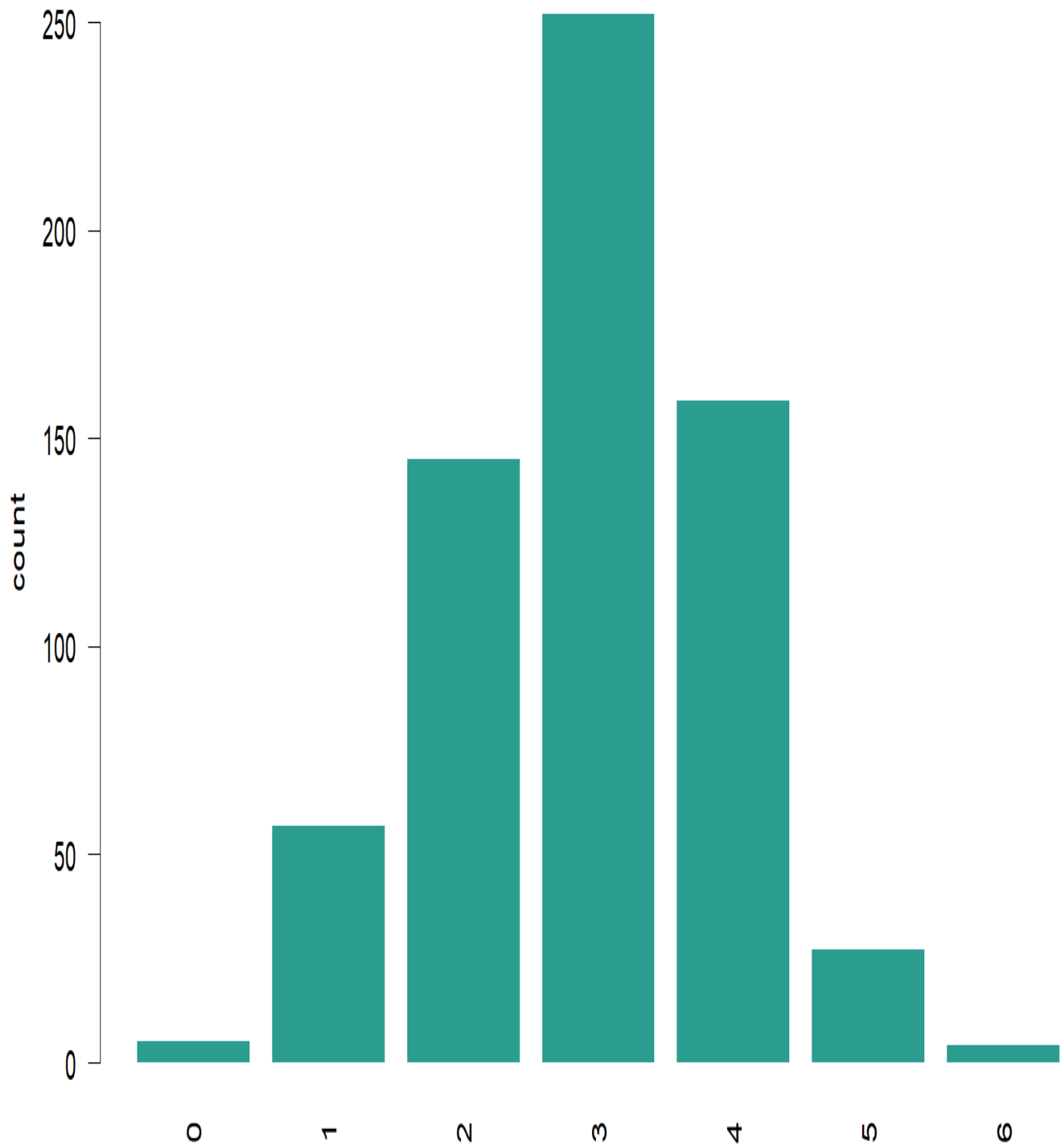
Kuder-Richardson Formula 20 - primary metrics



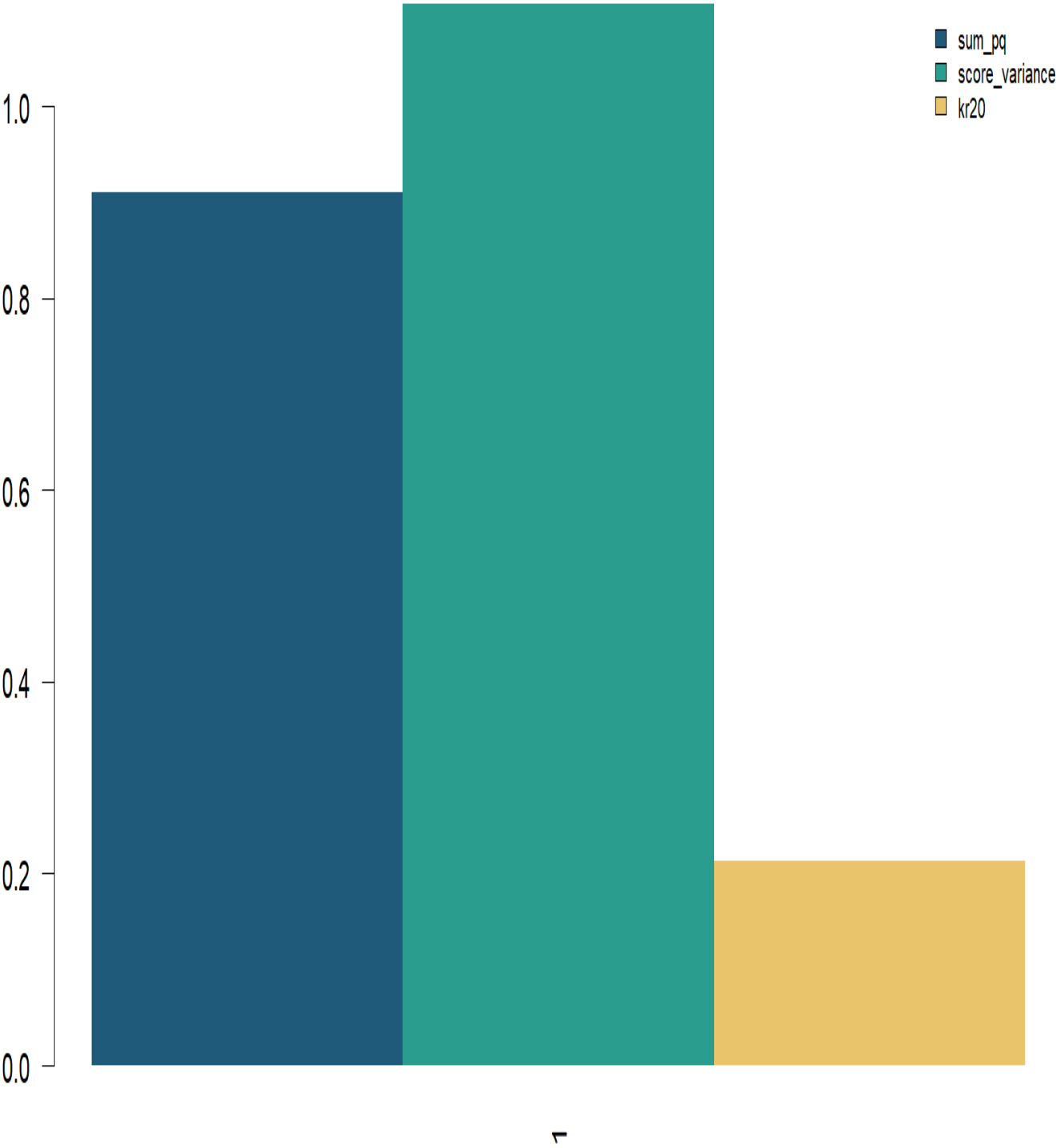
Kuder-Richardson Formula 20 - binary item difficulties



Kuder-Richardson Formula 20 - total score distribution



Kuder-Richardson Formula 20 - kr20 components



Kuder-Richardson Formula 20 verified results

