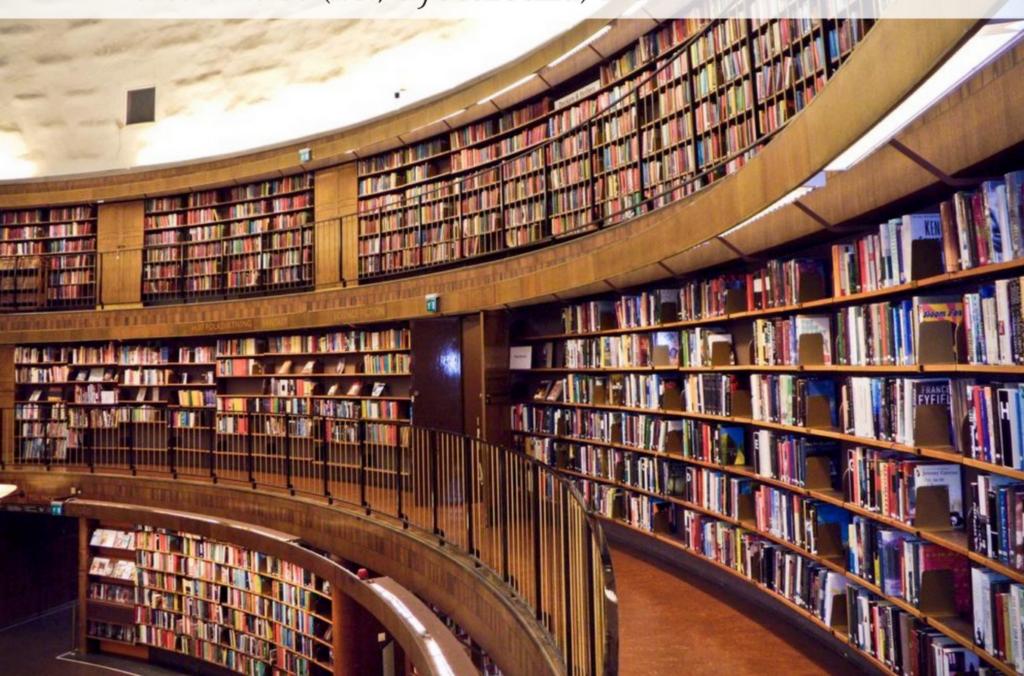
Review of Math Learning Disability Research



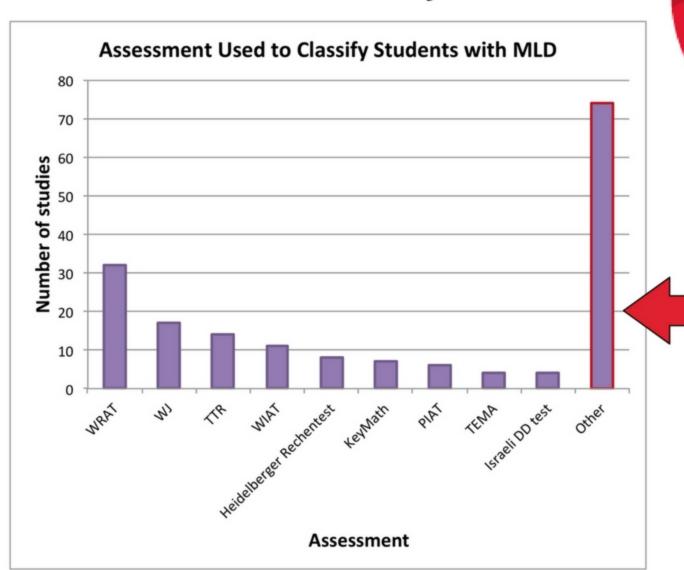
Reviewed 164 studies published on math learning disabilities (i.e., dyscalculia) from 1974 to 2013

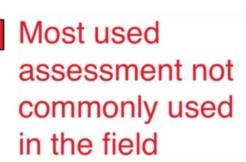


Question 1: How did researchers identify students with a math learning disability (MLD)?

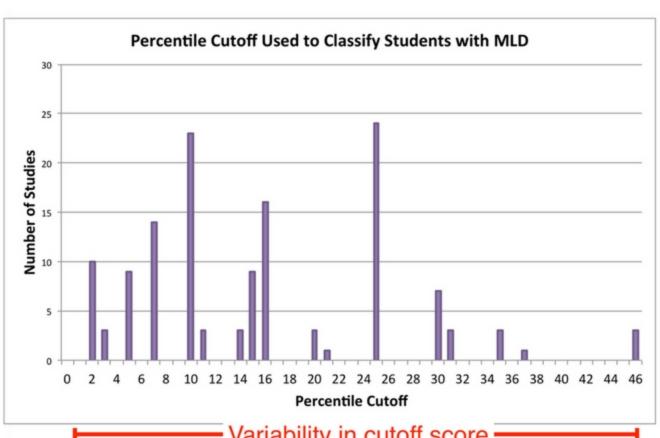


Variability in assessments used to identify MLD





Variability in cutoff score used to define MLD

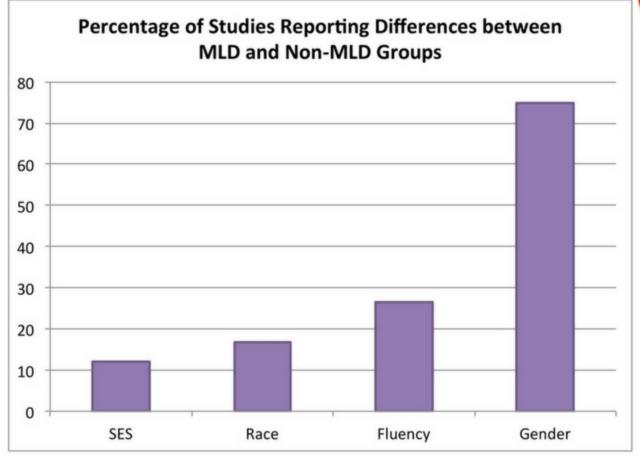


Variability in cutoff score to define MLD

Question 2: Do studies report demographic differences between the MLD and non-MLD groups?



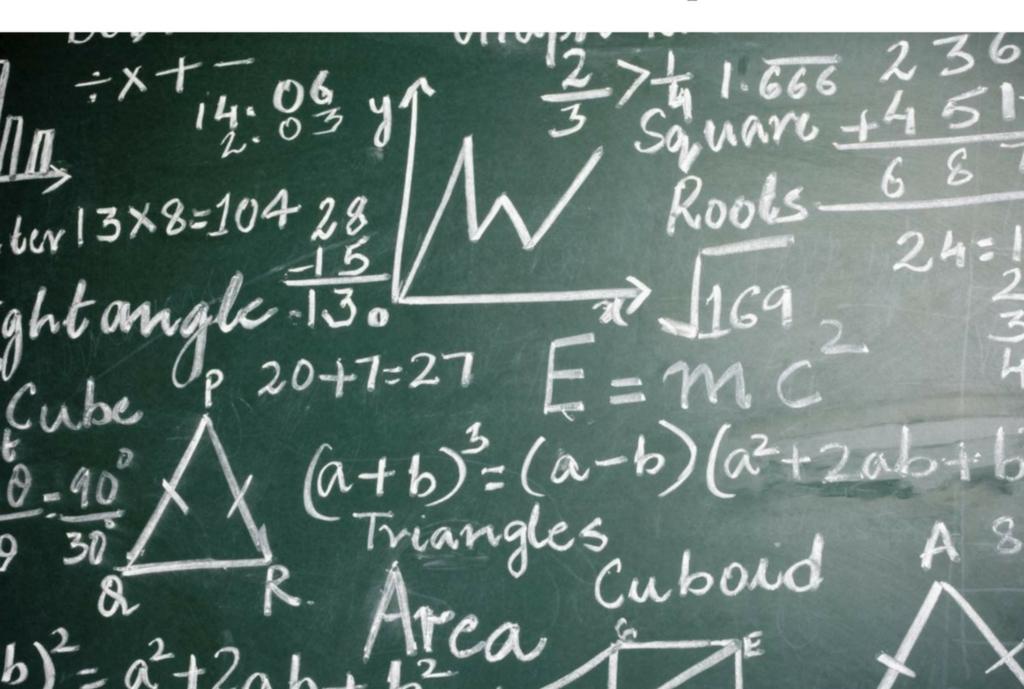
Most studies not reporting differences between groups



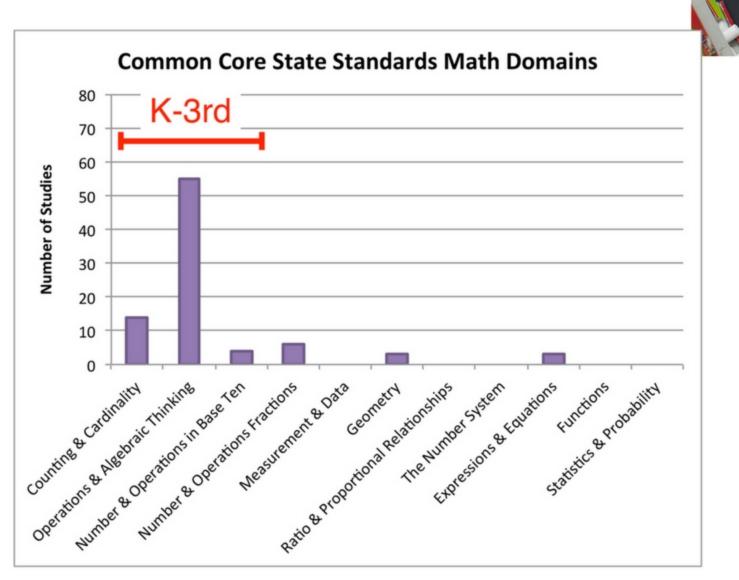
Majority of studies not reporting or controlling for demographic differences between groups



Question 3: What mathematical topics are studied?



Almost exclusive focus on elementary mathematics





Findings

- #1 Lack of consistency in MLD identification
- criteria across studies

#2 - Lack of control for demographic differences

#3 - Narrow focus on basic arithmetic (K-3rd)



Need for methodological change to:

- #1 Ensure that students classified as having MLD are comparable
- across studies
- #2 Ensure that MLD are not conflated with low achievement due to environmental/social factors
- #3 Explore MLD in the context of more advanced mathematics (e.g., algebra)