

The Use of IEP Accommodations and the Performance of Students with Disabilities on PASS 2011

Office of Assessment
Students with Disabilities Team

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Participation of Students with Disabilities in Statewide Testing

- 43,104 students with disabilities (SWD) were tested in grades 3-8 in 2011 (includes PASS and SC-Alt students)
- SWD students made up 13.2% of all students tested in grades 3-8
- 6.5% of SWD students were tested with SC-Alt
- The number of students tested with SC-Alt was 0.86% of all students tested with PASS and SC-Alt (SWD and Non-SWD)

Use of Accommodations by Students with Disabilities (SWD)

Standard Accommodations

All Content Areas Grades 3-8 with Exceptions Noted

- Setting
- Timing
- Scheduling
- Oral or Signed Administration (except ELA grades 3-4)
- Use of calculator with Math (except grades 3-4)
- Response Options
- Supplementary Materials or Devices

Non-Standard Accommodations

- Oral or Signed Administrations of ELA in grades 3-4
- Writing Extended Response – Non-standard Procedures
 - Use of spell check, grammar check, word prediction software
- Use of calculator in math in grades 3-4

Use of Accommodations with PASS 2011

Content Area	Percent of SWD Students Using Accommodations Grades 3-8 or 5-8 as Noted (*)			
	Any Accommodation	Oral/Signed Administration	Calculator	Non-Standard Accommodation
ELA	65.2	41.4*		2.4
Writing	66.9	48.0		0.1
Math	68.0	53.4	26.2*	0.15
Science	65.6	53.3		
Social Studies	65.5	53.1		

* Grades 5-8 only

Signed Administrations

- Signed administrations for ELA are standard accommodations for grades 5-8 and non-standard accommodations for grades 3-4 (consistent with oral administration of ELA)
- Only 0.3% of SWD in grades 5-8 received signed administrations (75 students)
- Data for oral administrations of ELA in this presentation includes signed administrations

Seven-Year Trends for Oral Administration of ELA and Calculator Use with PACT/PASS

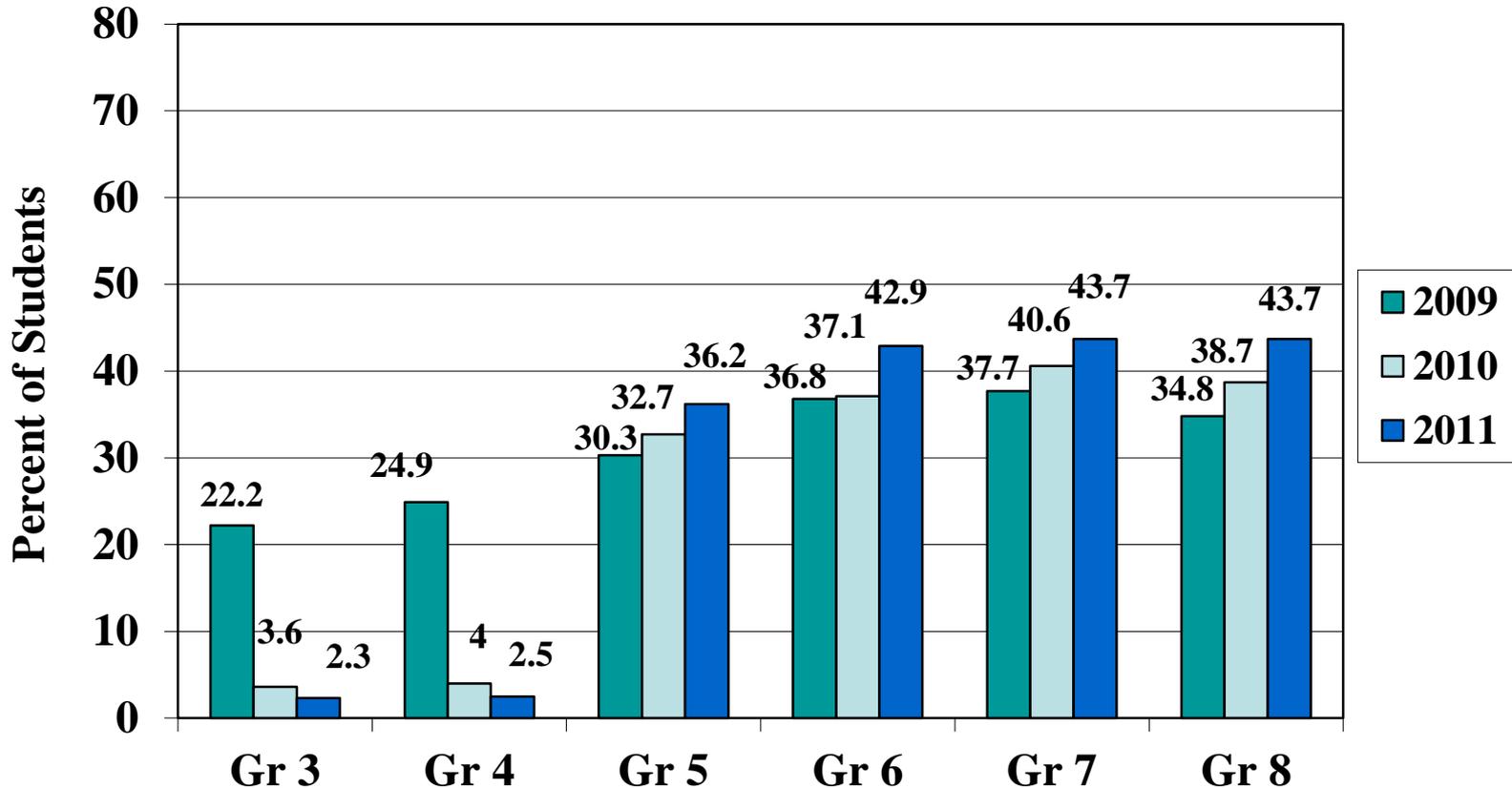
Year	Oral Administration of ELA	Calculator Use with Mathematics
2005	20.0%	8.6%
2006	26.3%	11.7%
2007	26.2%	14.3%
2008	26.6%	15.7%
2009	30.7%	15.0%
2010	37.2% (Gr 5-8 only)	22.5% (Gr 5-8 only)
2011	41.4% (Gr 5-8 only)	26.2% (Gr 5-8 only)

Use of Oral Administration of ELA

Use of Oral Administration of ELA in Grades 5-8

- Oral administrations were predominantly in grades 5-8 where they are standard accommodations
- The overall rate of oral administrations for grades 5-8 was 41.4% (37.2% in 2010)
- The median rate for districts was 46.3% (range=0–84.5%; 75%Q=64.5%; 25%Q=27.9%)

Percent of SWD Receiving Oral Administration of ELA by Grade 2009-2011



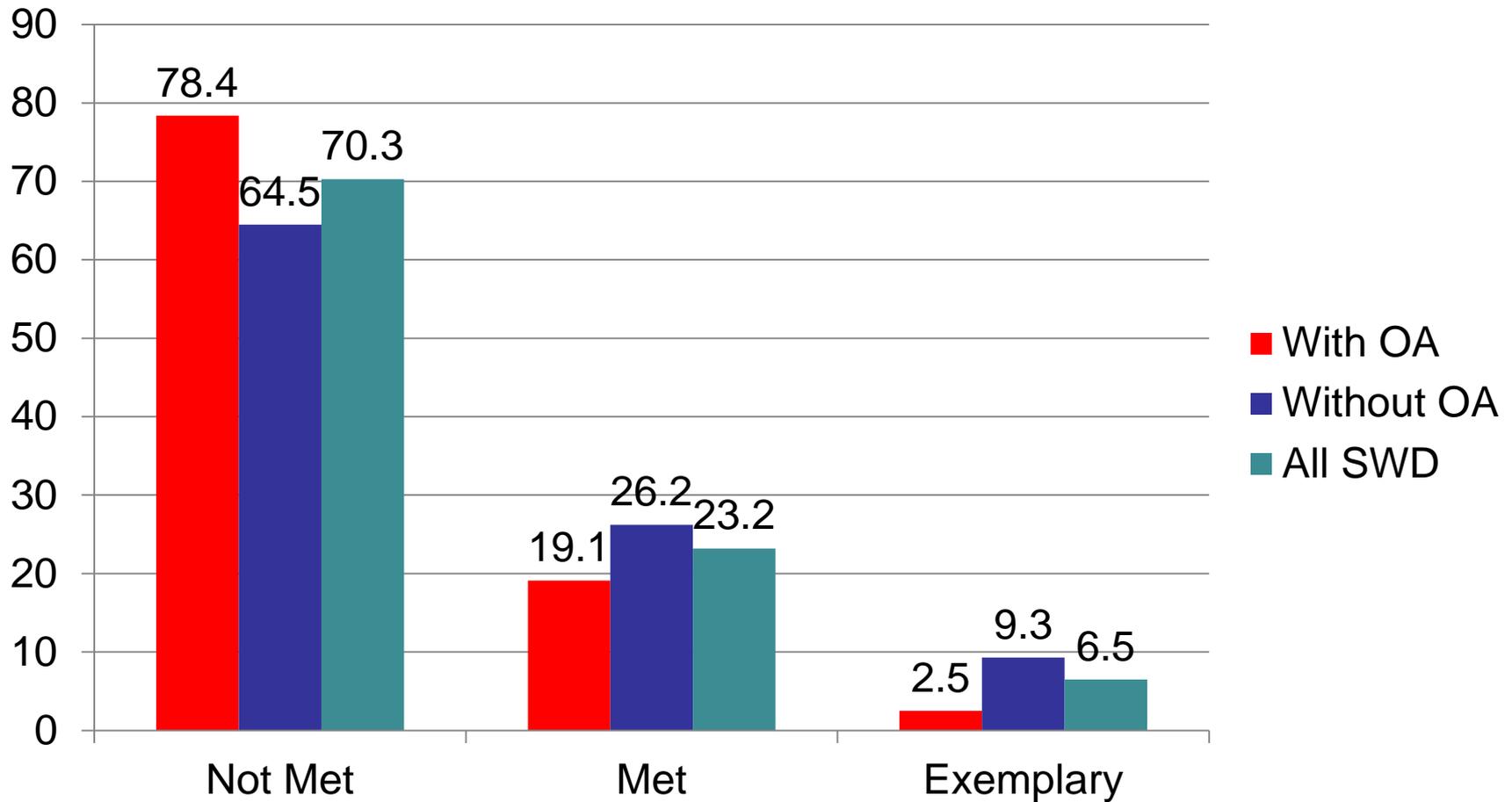
Number of SWD Receiving Oral Administration of ELA PASS 2011

Grade	Number
3	166
4	181
5	2,577
6	2,707
7	2,824
8	2,644

Rates of Oral Administration by Disability Groups for Grades 5-8

- By disability group percentage, mild and moderate cognitive disability and TBI students had the highest oral administration rates (56 – 74%)
- Used by 44% of learning disability students, and being the largest disability group, made up approximately 70% of all students receiving oral administrations

ELA Performance of SWD Tested With and Without Oral Administration (OA) in Grades 5-8

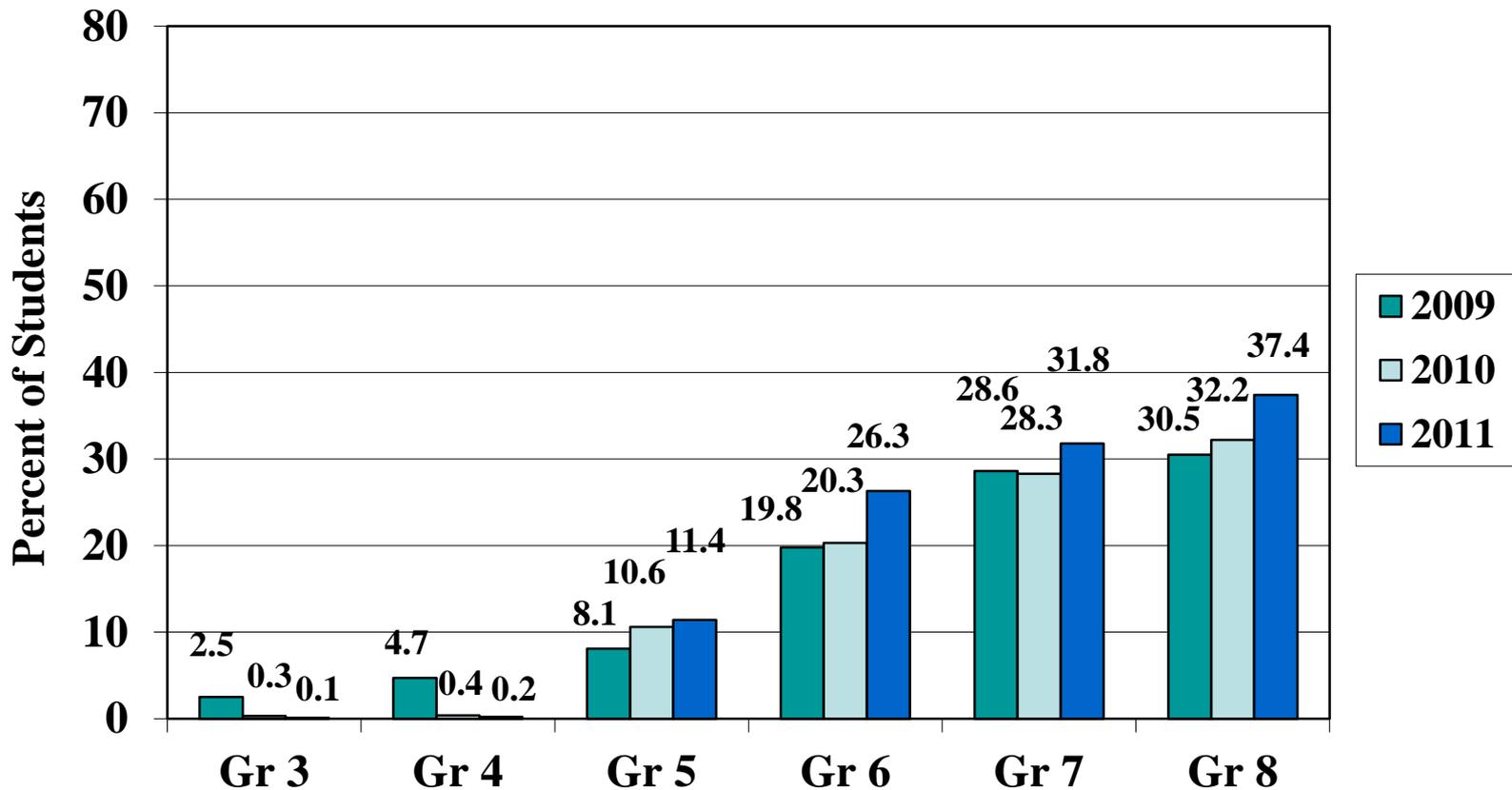


Calculator Use

Use of Calculators with PASS

- Calculator administrations were predominantly in grades 5-8 where they are standard accommodations
- The overall rate of calculator administrations for grades 5-8 was 26.2% (22.5% in 2010)
- The median rate for districts was 24.2 (range=0-66.7%; 75%Q=37.5%; 25%Q=11.7%)

Percent of SWD Using Calculator Administrations by Grade 2009-2011



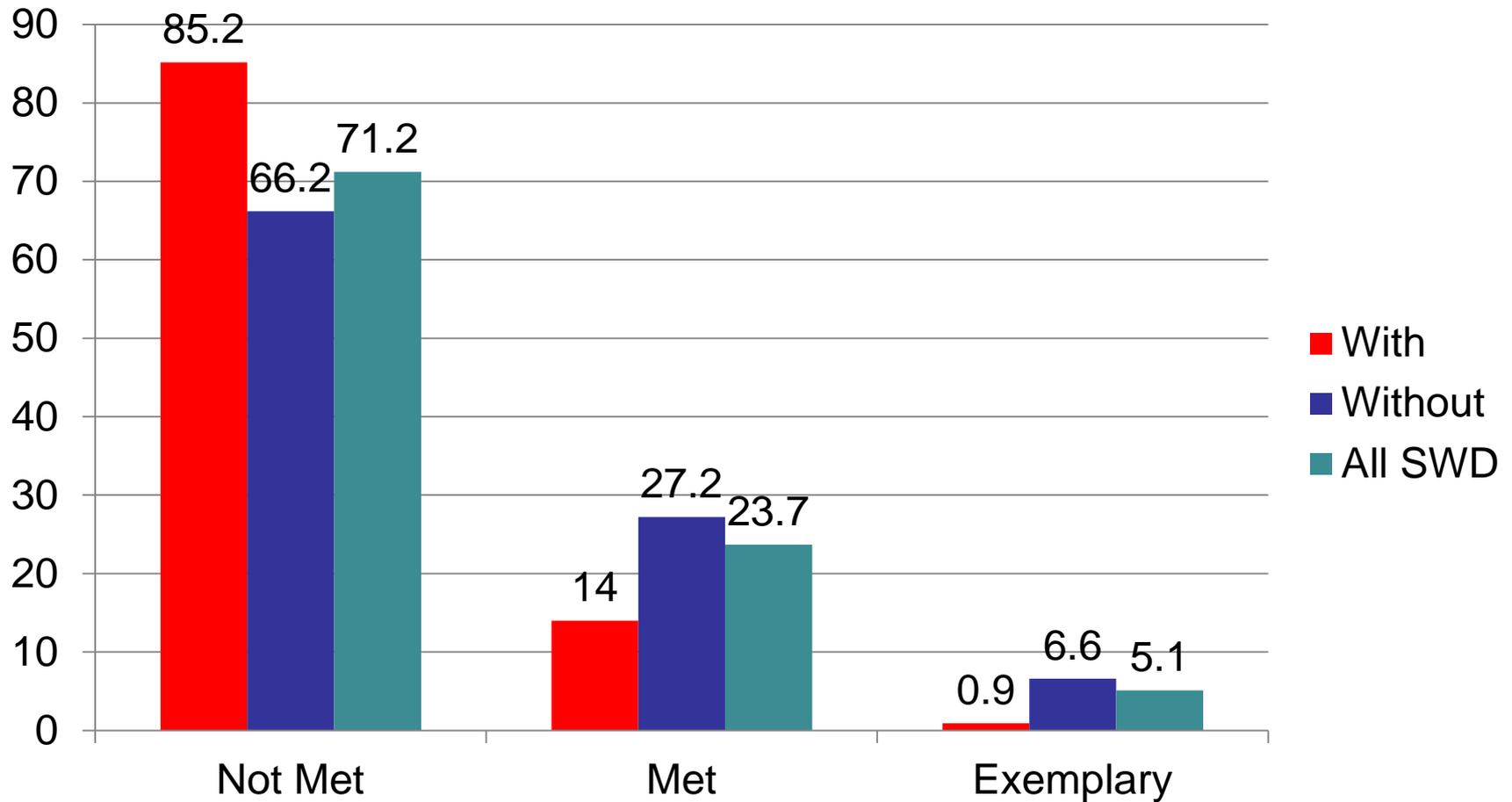
Number of SWD Using Calculator Administrations for PASS 2011

Grade	Number
3	5
4	17
5	814
6	1663
7	2050
8	2263

Rates of Calculator Use by Disability Groups for Grades 5-8

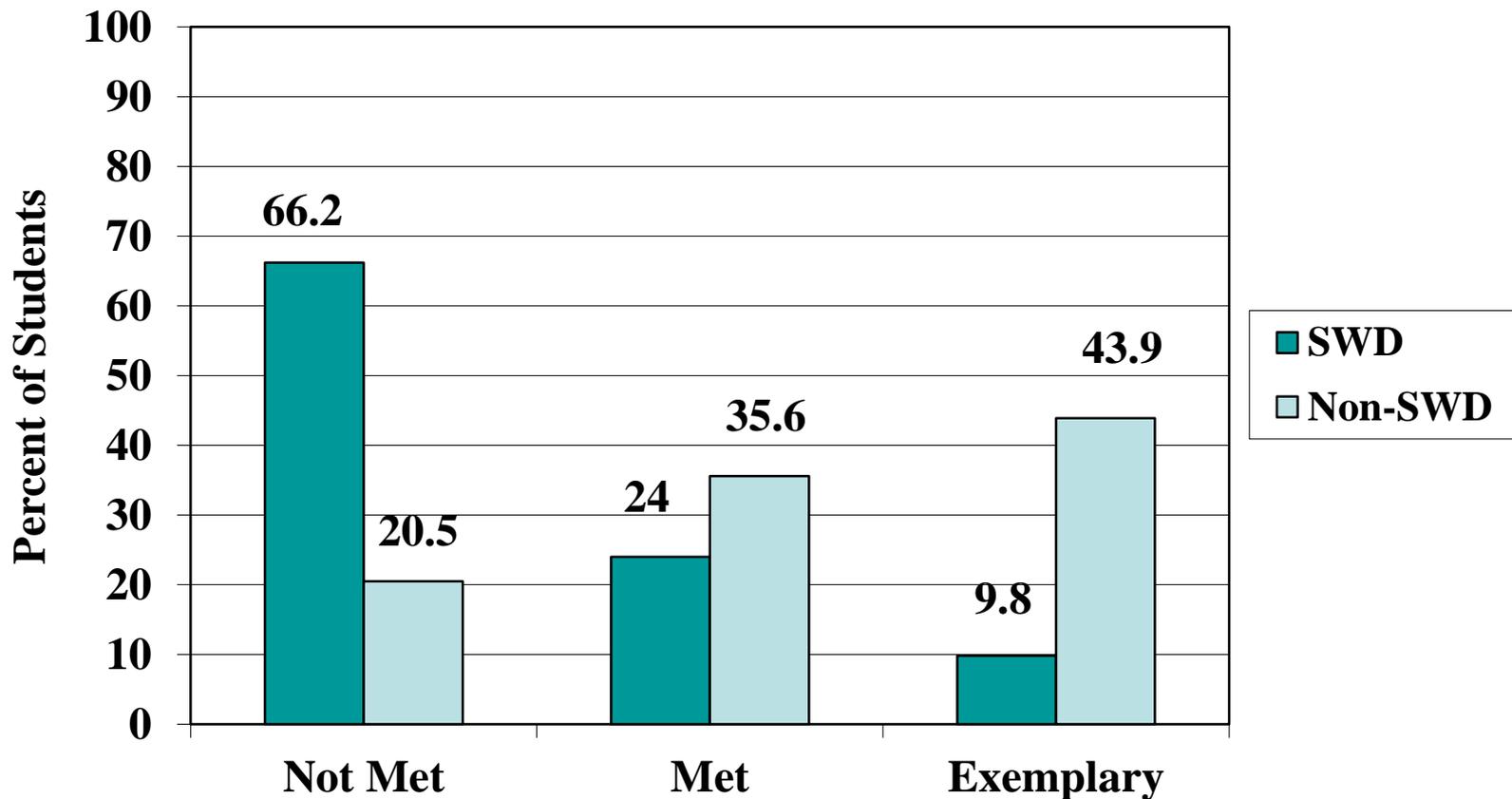
- By disability group percentage, mild cognitive disability, orthopedically impaired, and TBI students had the highest calculator use rates (29 – 37%)
- Used by 27% of learning disability students, and being the largest disability group, made up approximately 69% of all students receiving calculator administrations

Math Performance of SWD Tested With and Without Calculators in Grades 5-8

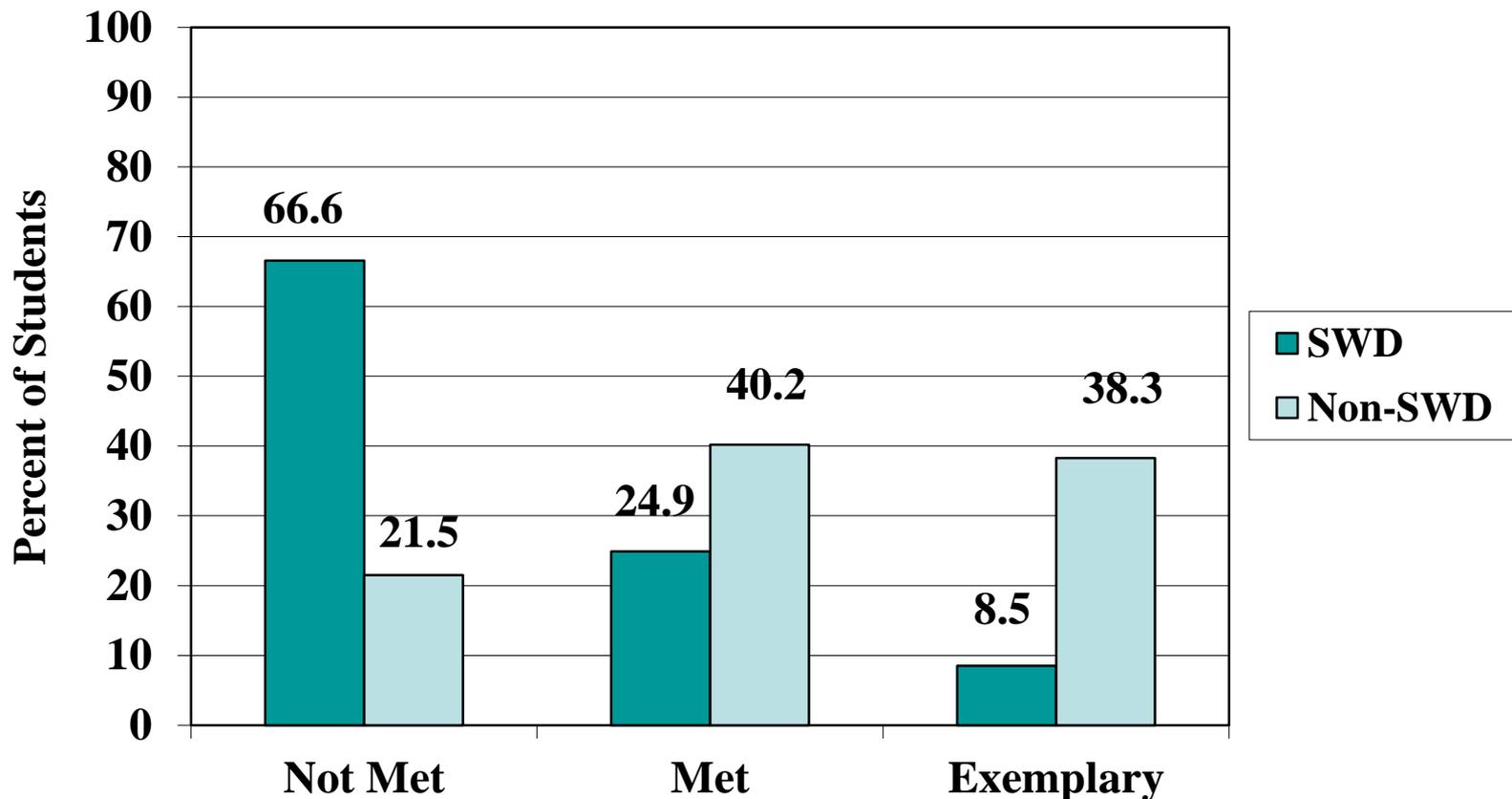


ELA and Mathematics
Performance on PASS 2011 for
All SWD and Non-SWD Students

ELA Performance of SWD and Non-SWD Students for Grades 3-8 Combined

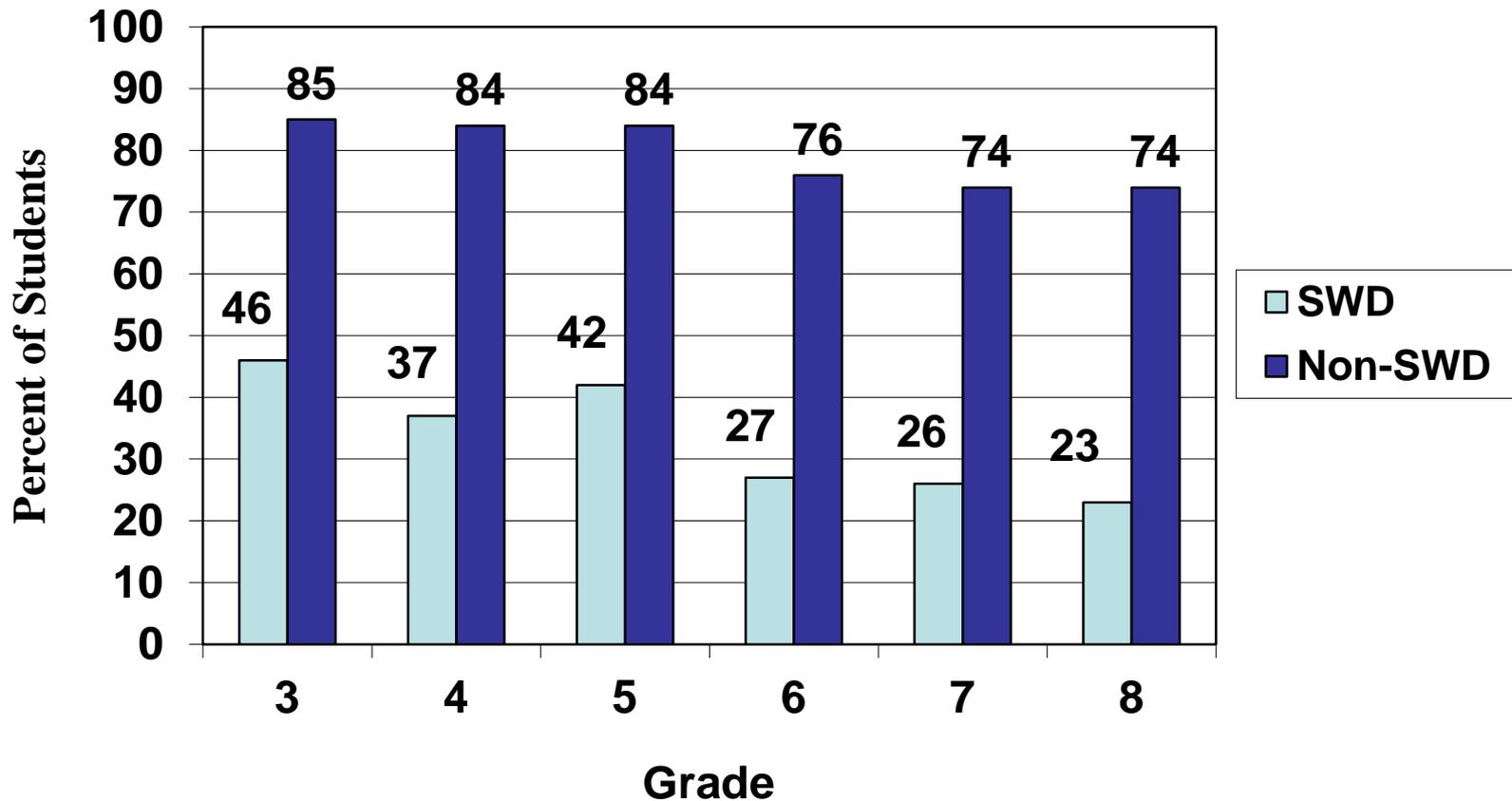


Math Performance of SWD and Non-SWD Students for Grades 3-8 Combined



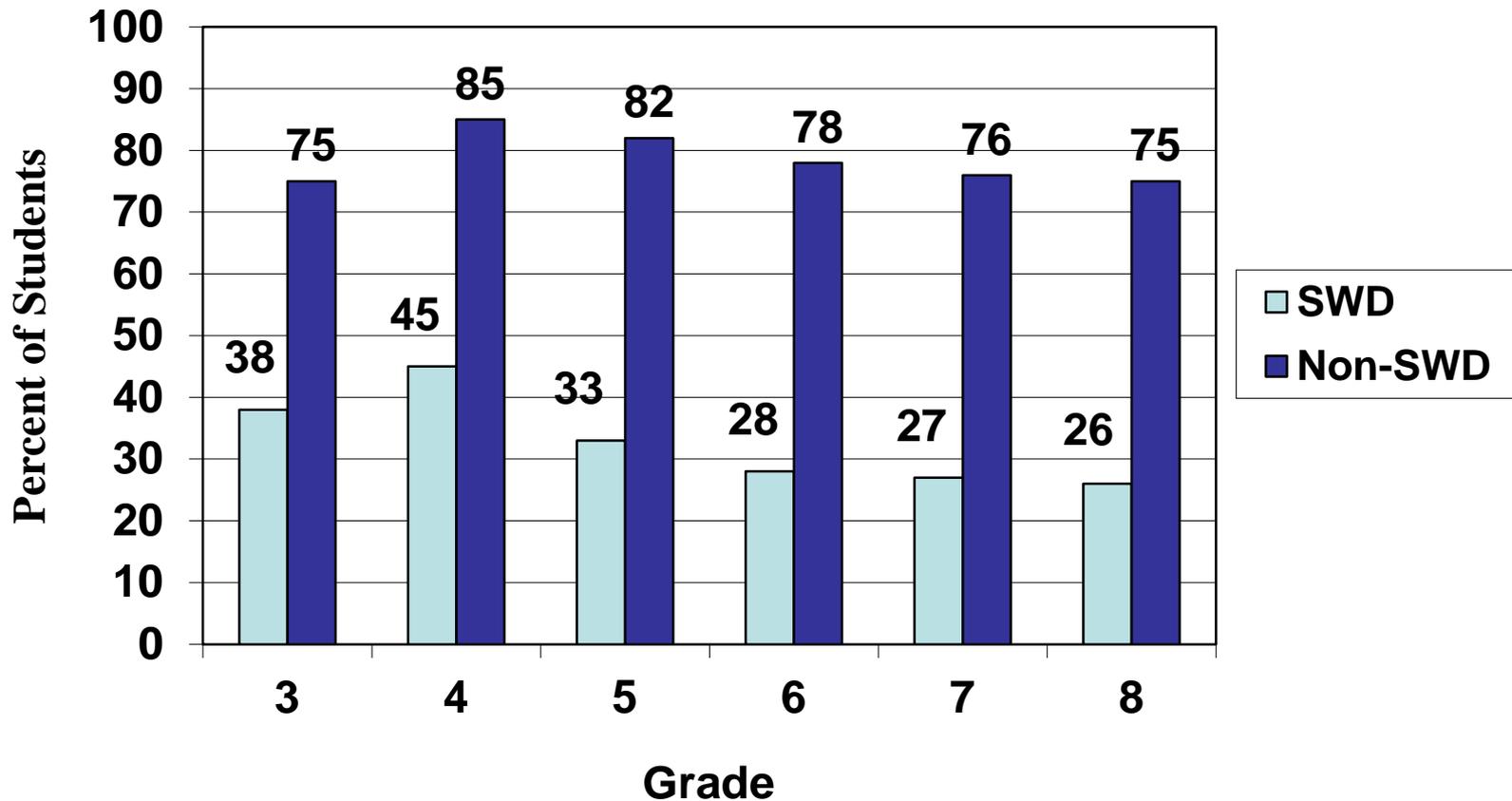
ELA Performance of SWD and Non-SWD Students by Grade

Percent Scoring Met or Exemplary



Math Performance of SWD and Non-SWD Students by Grade

Percent Scoring Met or Exemplary



Oral Administration and Calculator Use Effect on PASS Performance

Assessing the Effects of Accommodation Use on PASS Performance

- The ideal method of determining the effect of an accommodation on test performance would be to use a randomized experimental design including SWD and Non-SWD students.
- Use of this design is not feasible for SCDE

Estimating the Effects of Oral Administration and Calculator Use With Existing Data

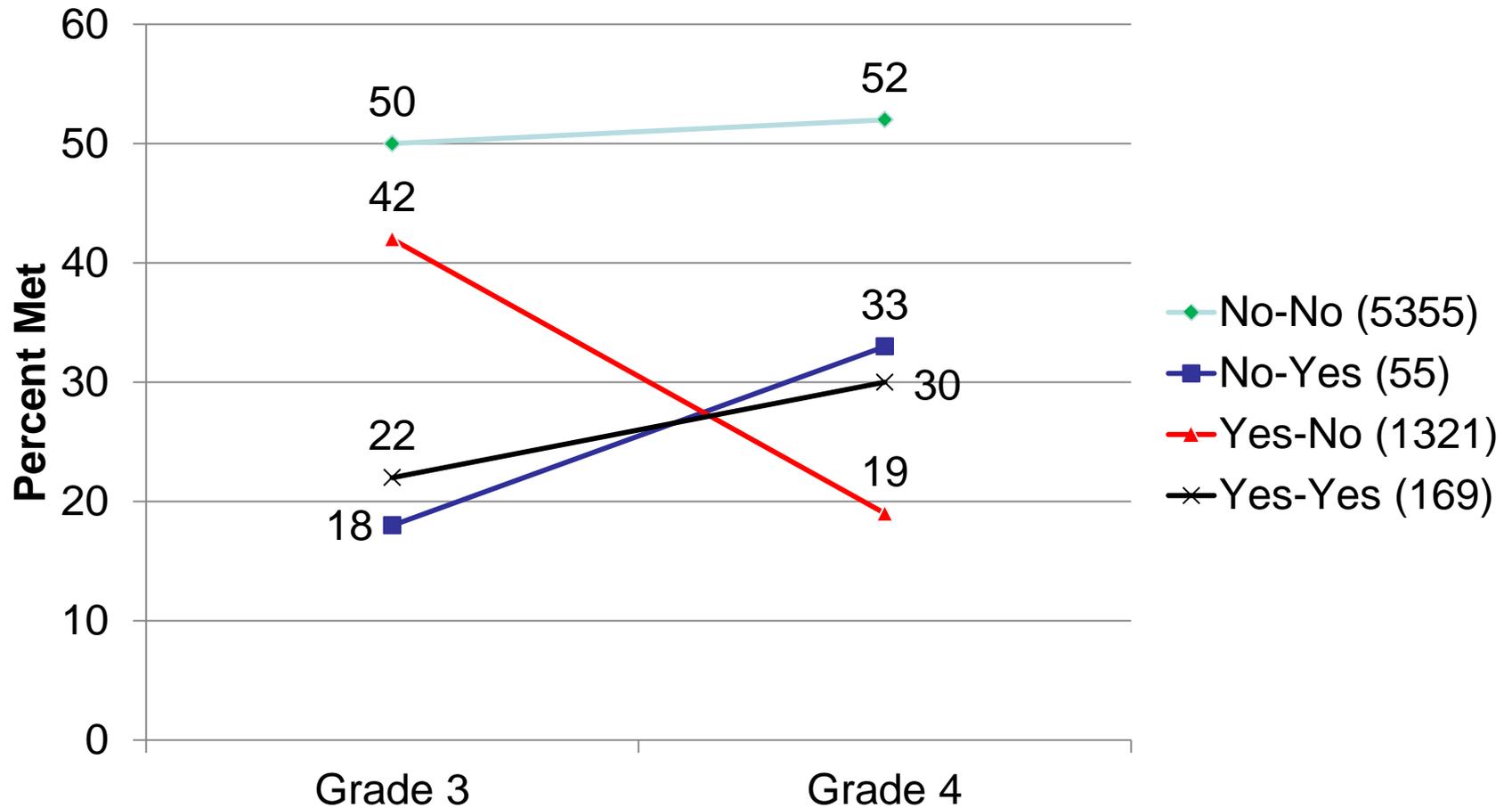
- A file of pretest (2009) to posttest (2010) PASS scores was created for all possible SWD student matches
- Score change from 2009 to 2010 was examined for students grouped by their patterns of use of the accommodation during the two test administrations

Four Possible Patterns of Accommodation Use and Expected Change Hypothesizing that the Accommodation Improves Performance

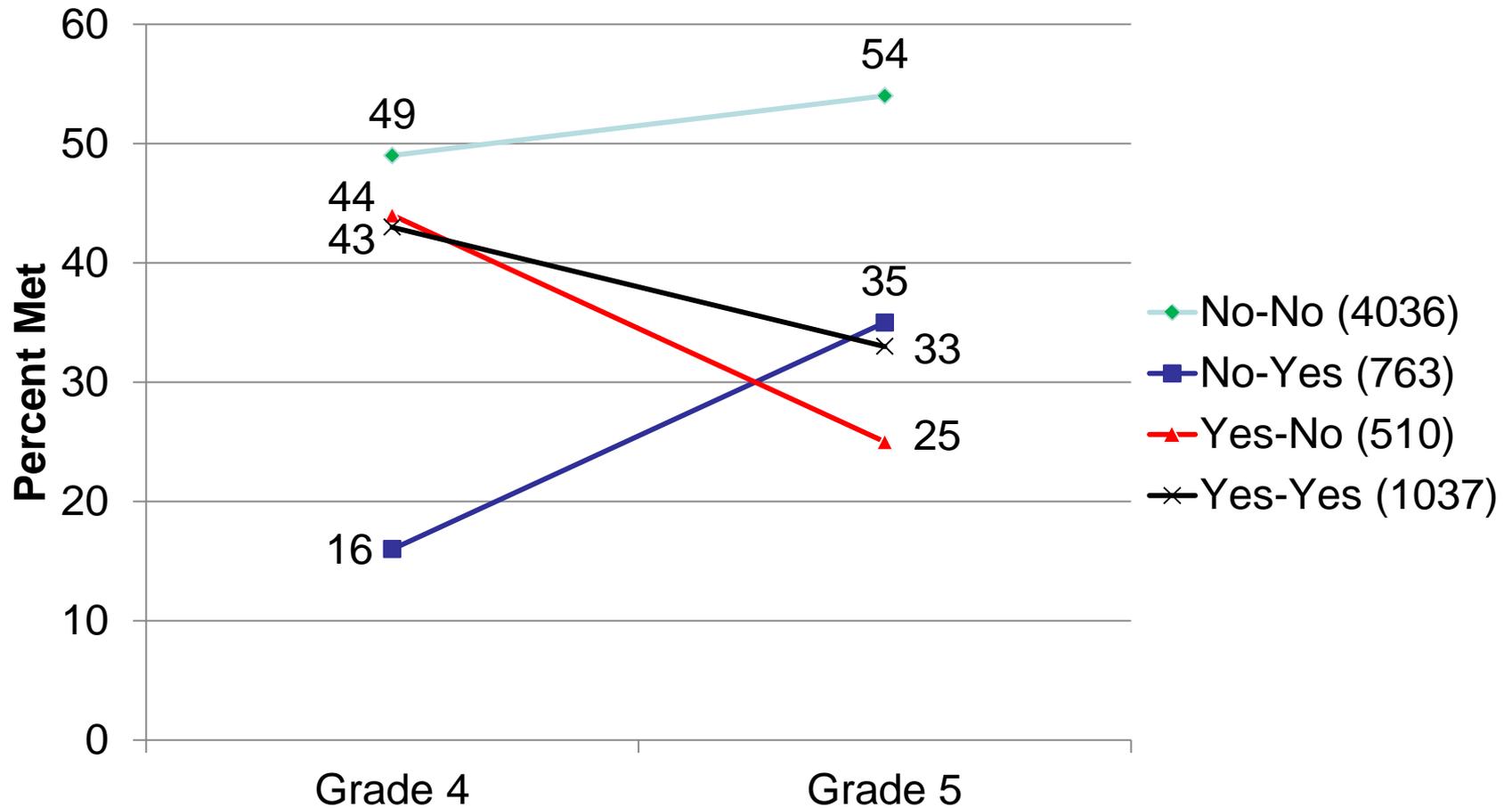
Groups	Accommodation Use by Administration		Expected Change in Scores
	2009	2010	
NO–NO Group	No	No	None
NO–YES Group	No	Yes	Increase
YES–NO Group	Yes	No	Decrease
YES–YES Group	Yes	Yes	None

ELA Performance by Patterns of Oral Administration for PASS 2009 and 2010

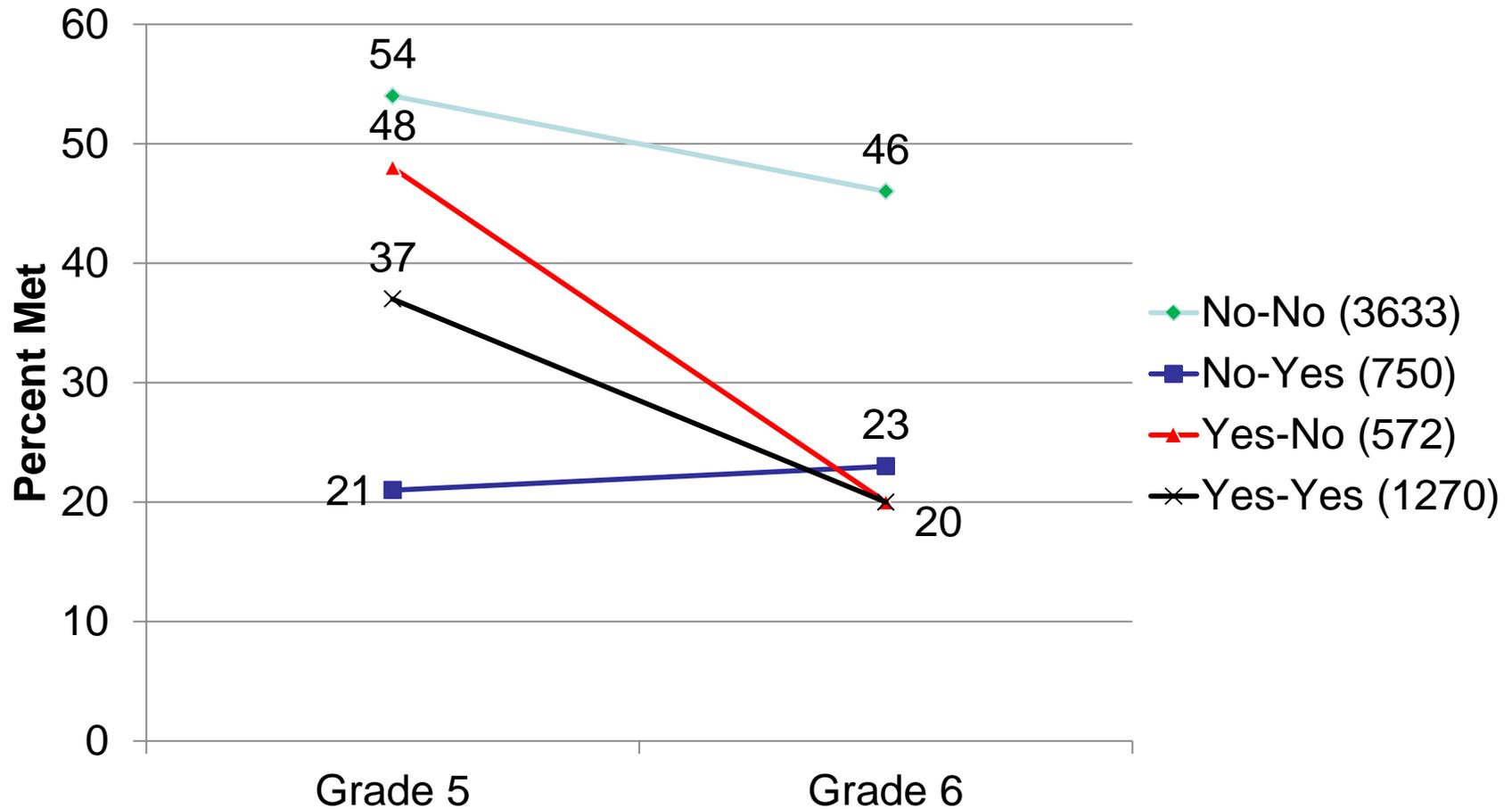
ELA Performance by SWD Groups with Differing Patterns of Use of Oral Administration for 2009 and 2010



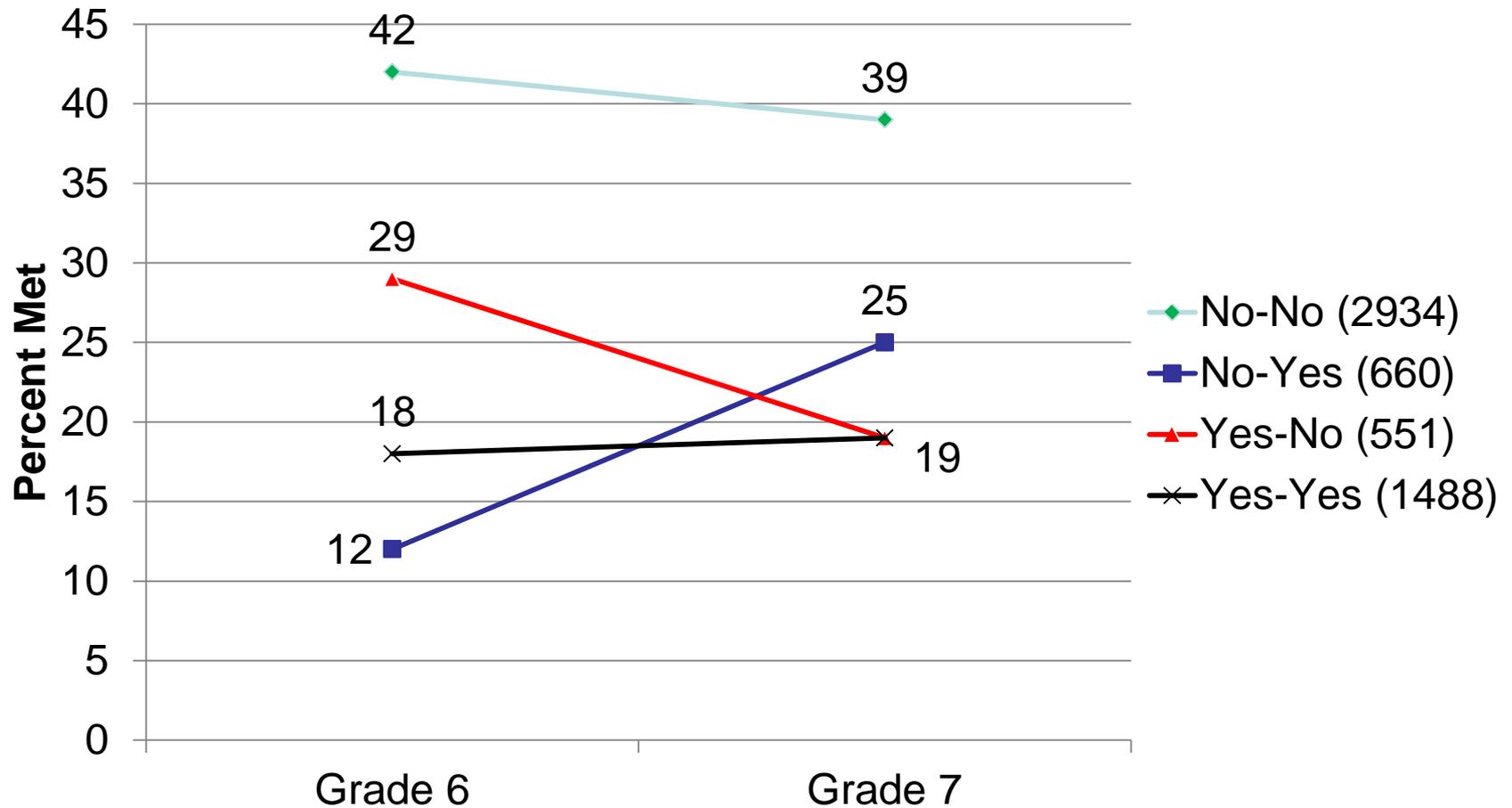
ELA Performance by SWD Groups with Differing Patterns of Use of Oral Administration for 2009 and 2010



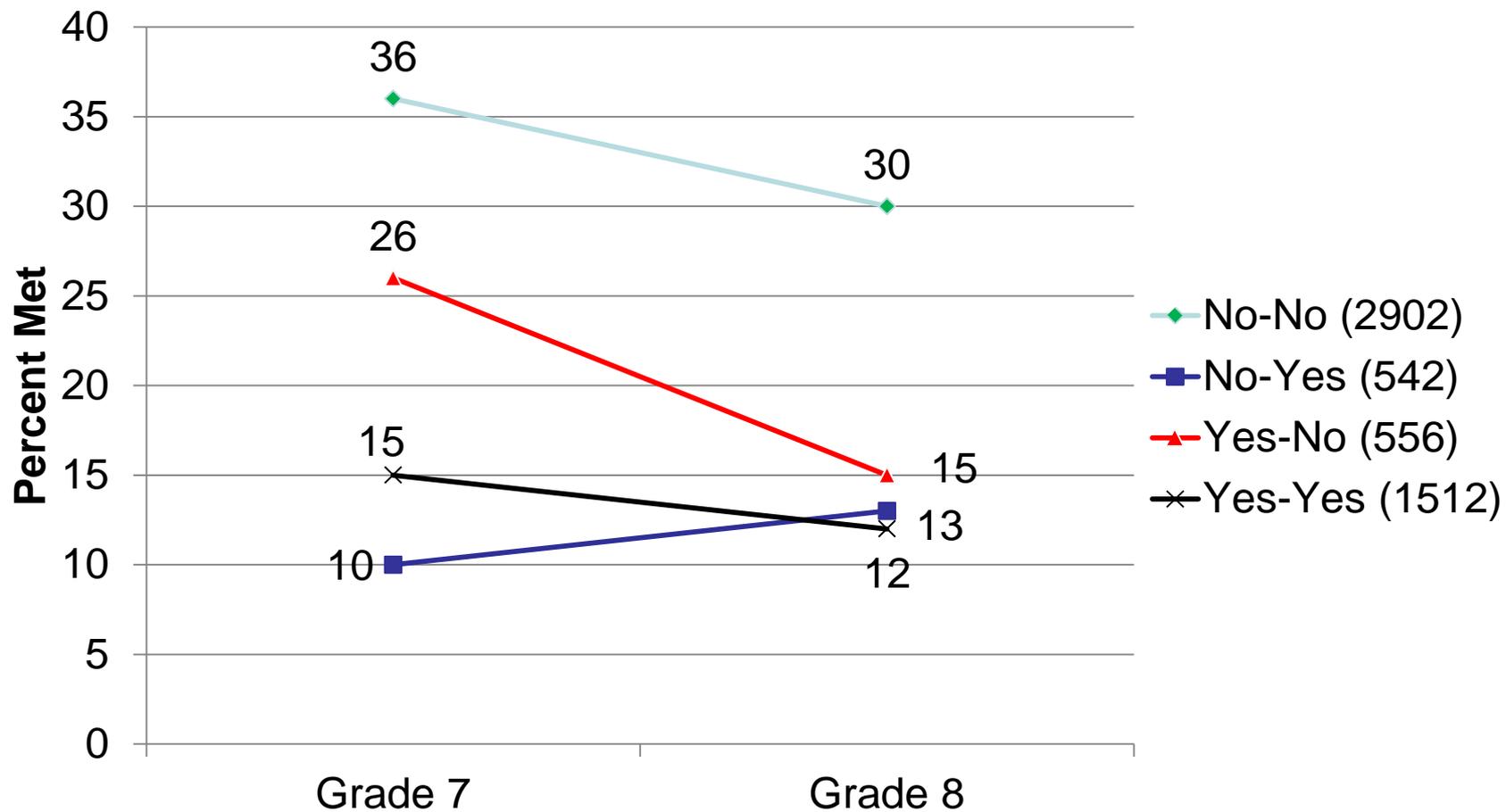
ELA Performance by SWD Groups with Differing Patterns of Use of Oral Administration for 2009 and 2010



ELA Performance by SWD Groups with Differing Patterns of Use of Oral Administration for 2009 and 2010



ELA Performance for SWD Groups with Differing Patterns of Use of Oral Administration for 2009 and 2010

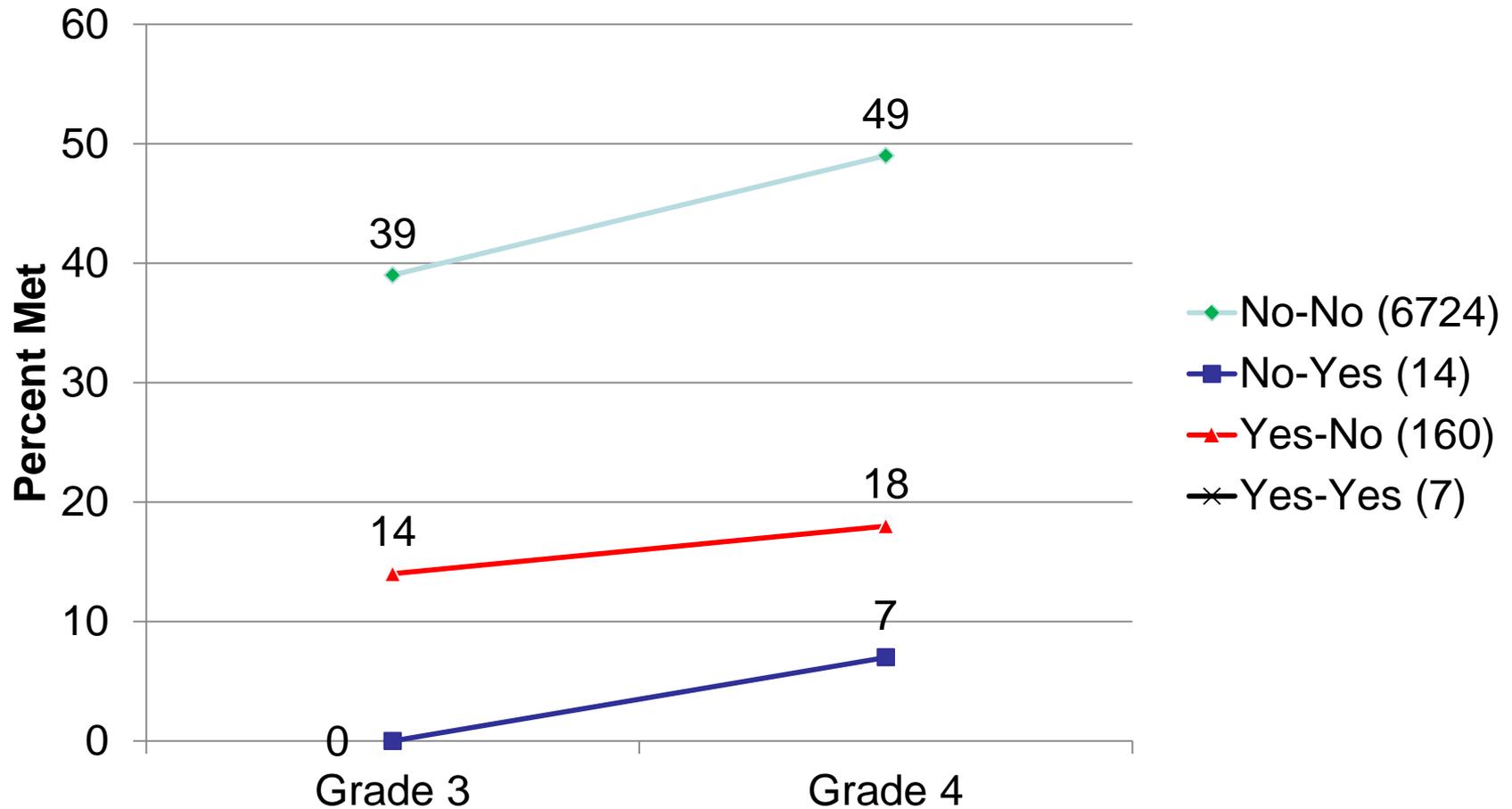


Conclusion

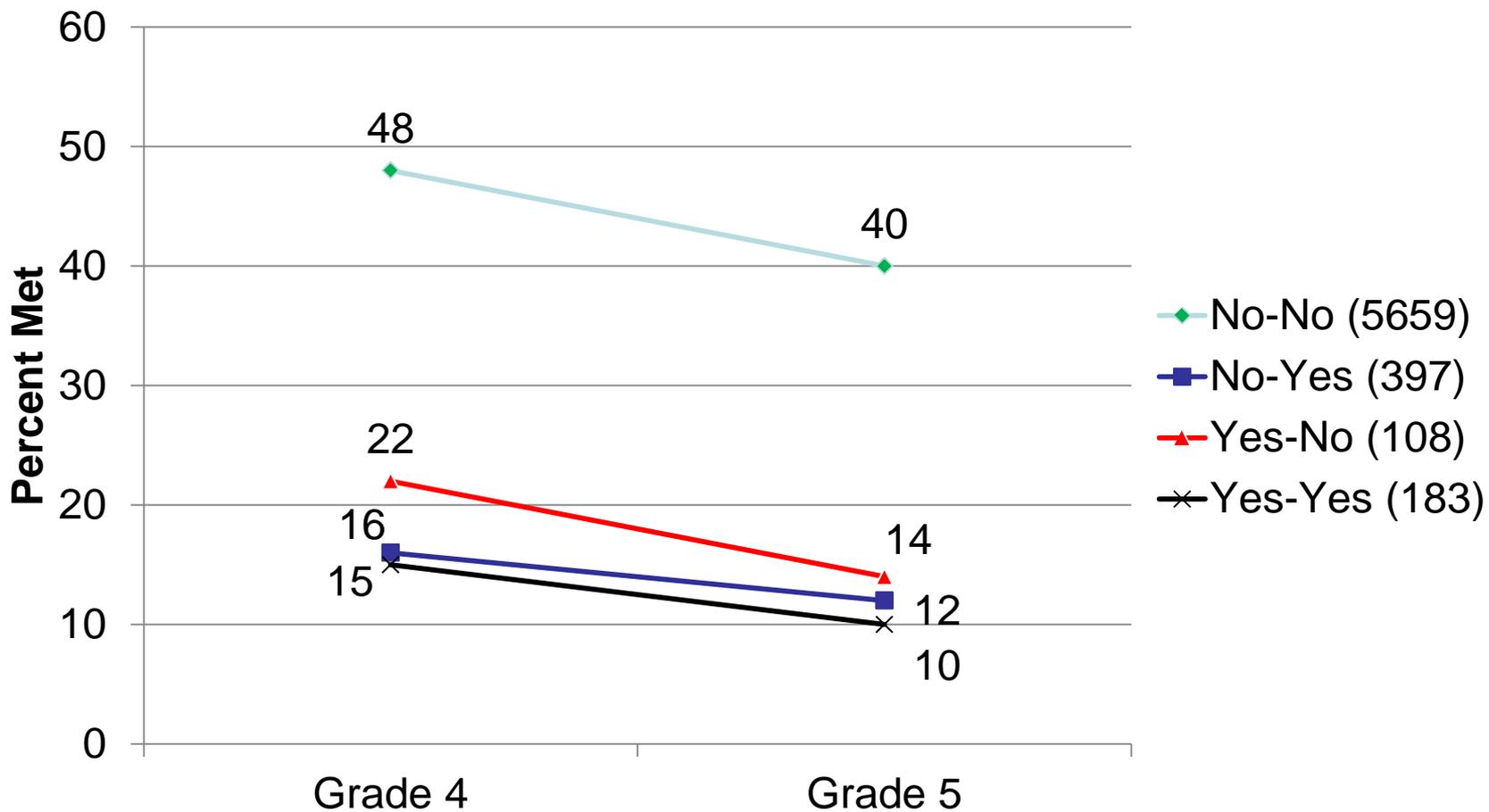
- Oral administration of ELA appears to have a beneficial effect on the ELA performance of SWD students

Math Performance by Patterns of Calculator Use for the PASS 2009 and 2010 Administrations

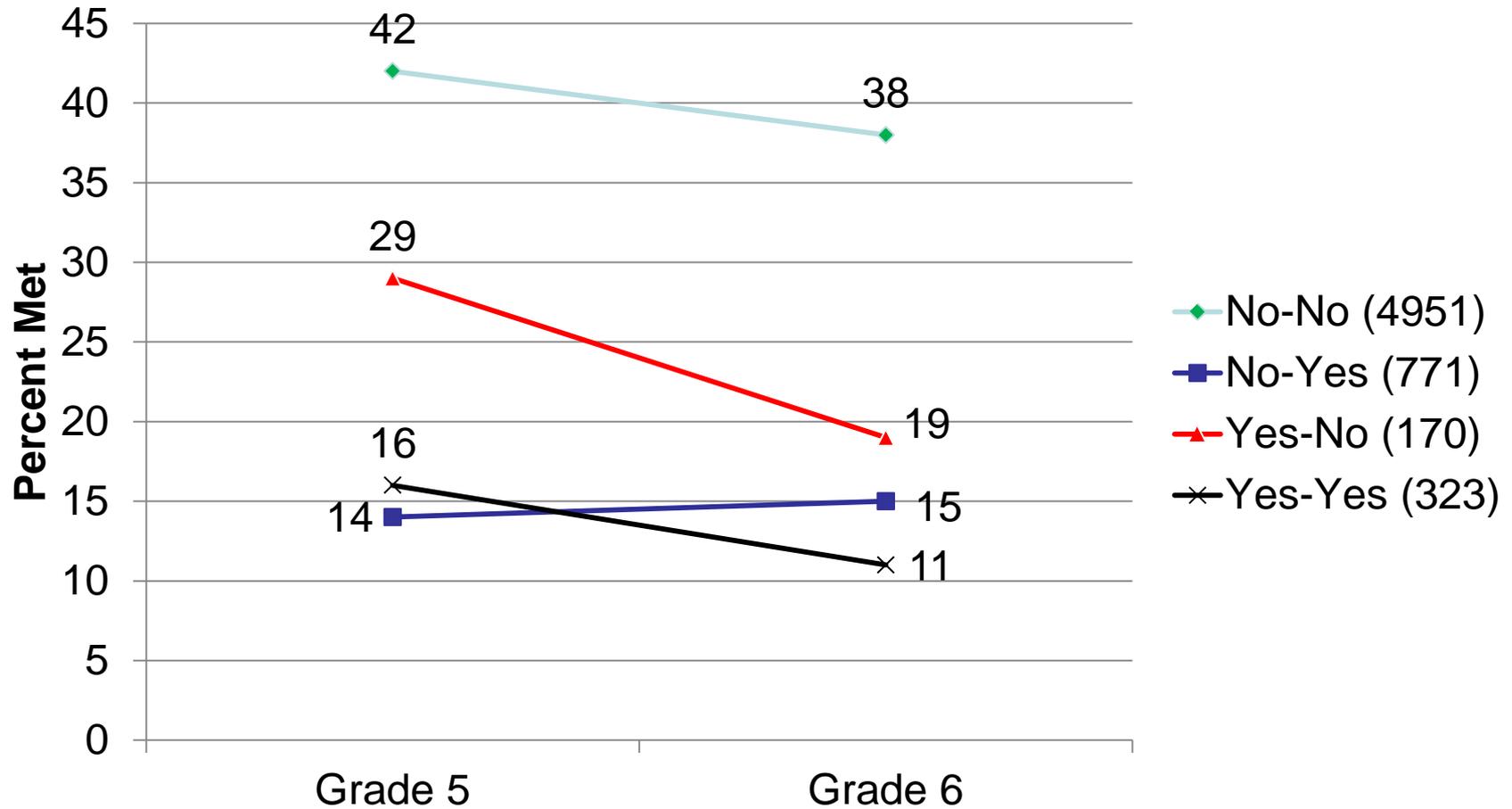
Math Performance by SWD Groups with Differing Patterns of Use of Calculator Administrations for 2009 and 2010



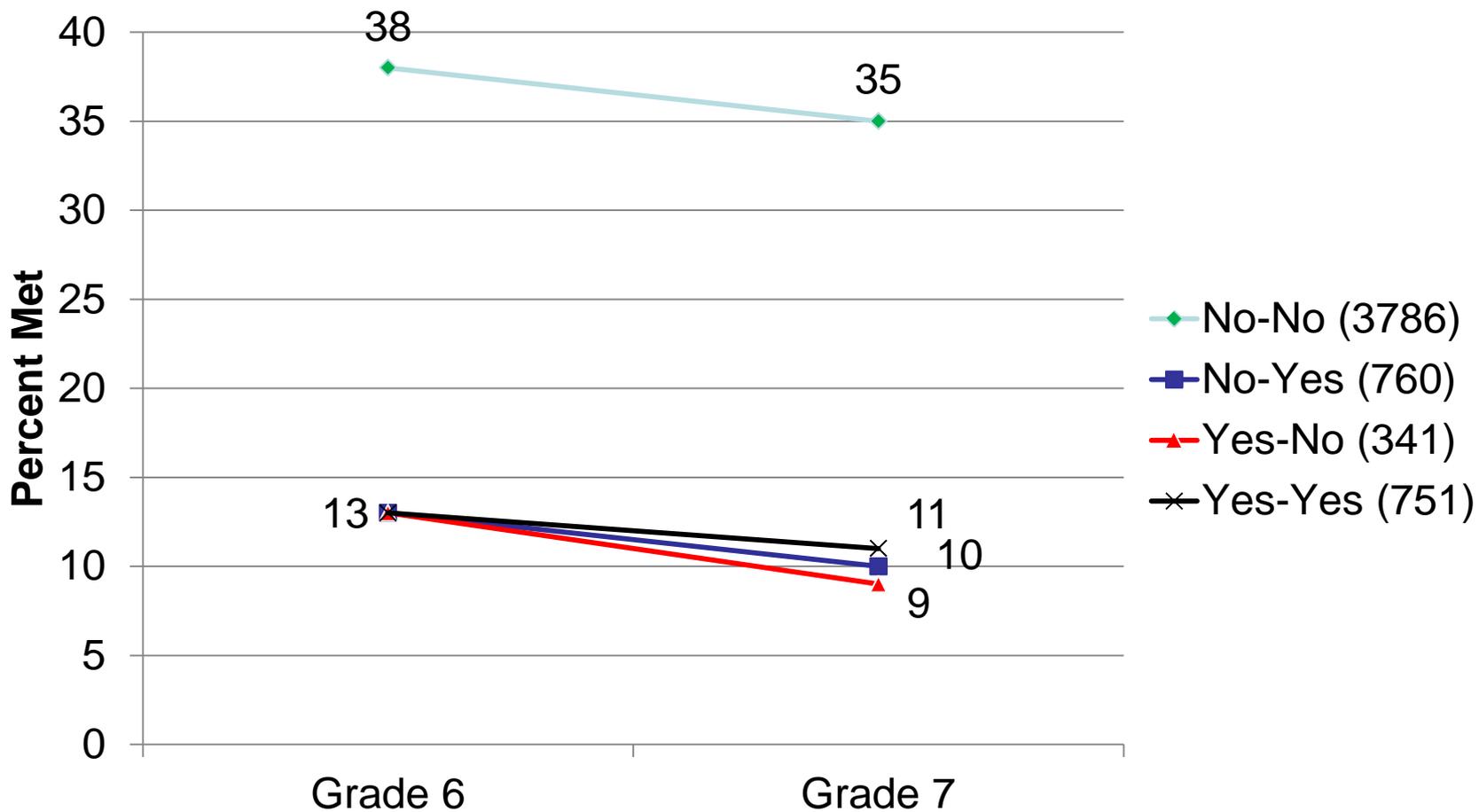
Math Performance by SWD Groups with Differing Patterns of Use of Calculator Administrations for 2009 and 2010



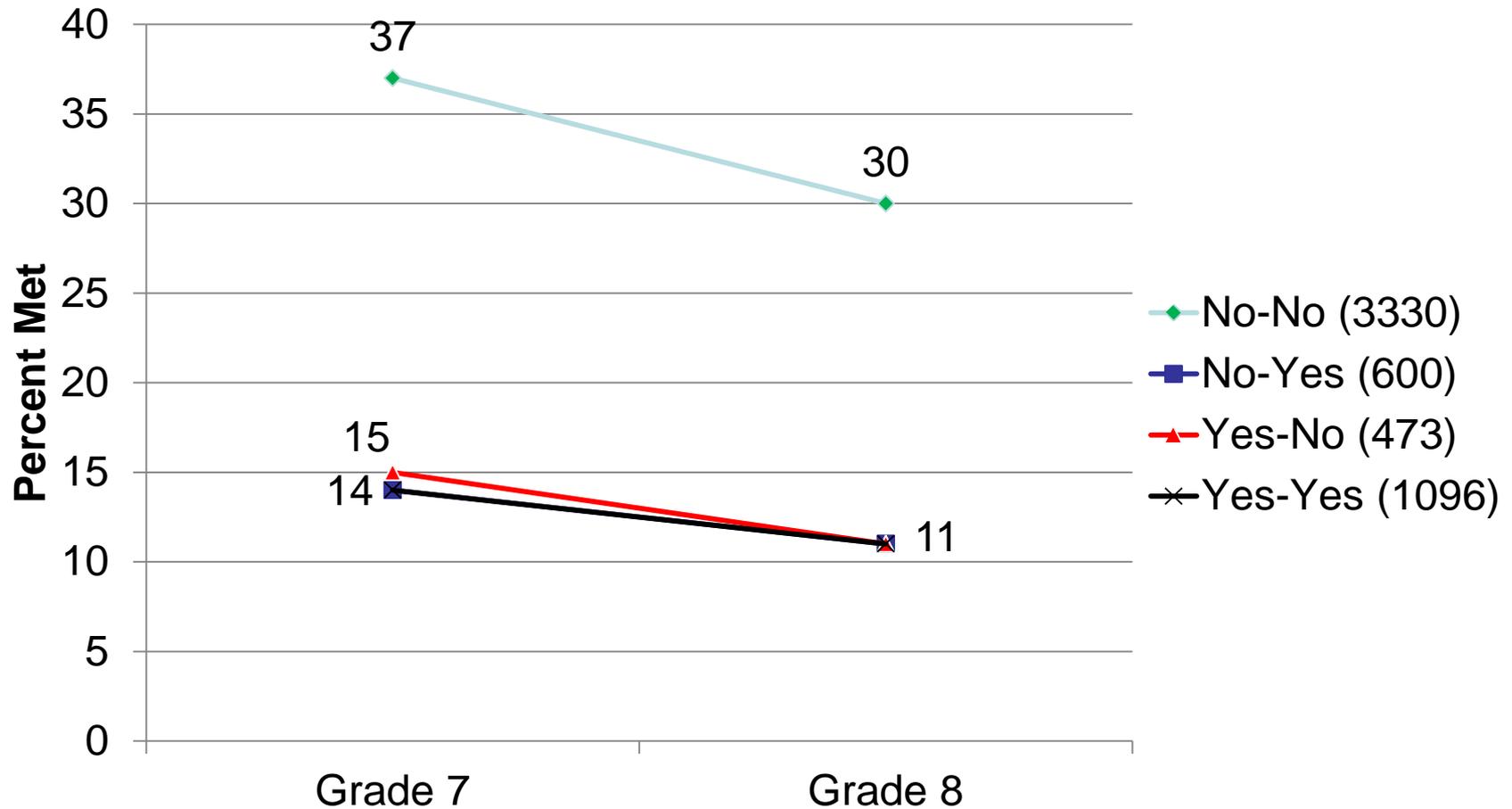
Math Performance by SWD Groups with Differing Patterns of Use Calculator Administrations for 2009 and 2010



Math Performance by SWD Groups with Differing Patterns of Use of Calculator Administrations for 2009 and 2010



Math Performance for SWD Groups with Differing Patterns of Use of Calculator Administrations for 2009 and 2010



Conclusion

- Calculator use by SWD students does not appear to be related to improved PASS mathematics performance