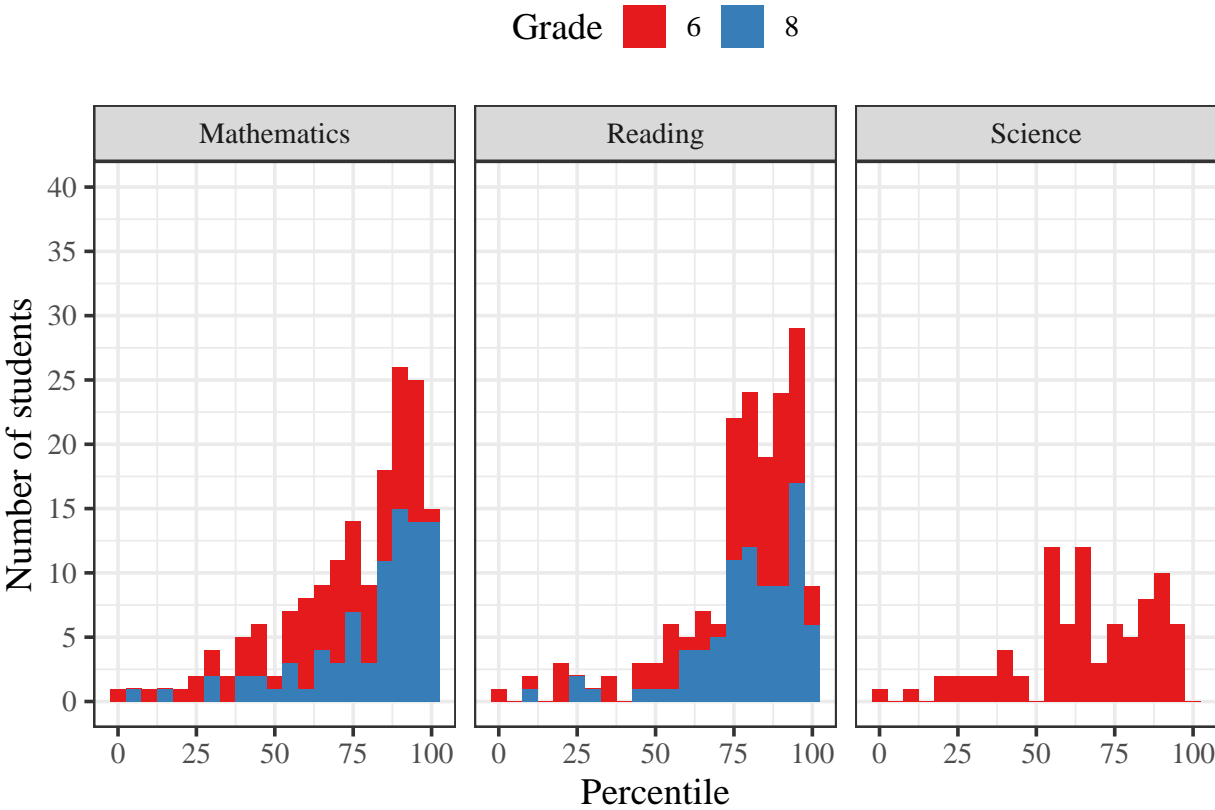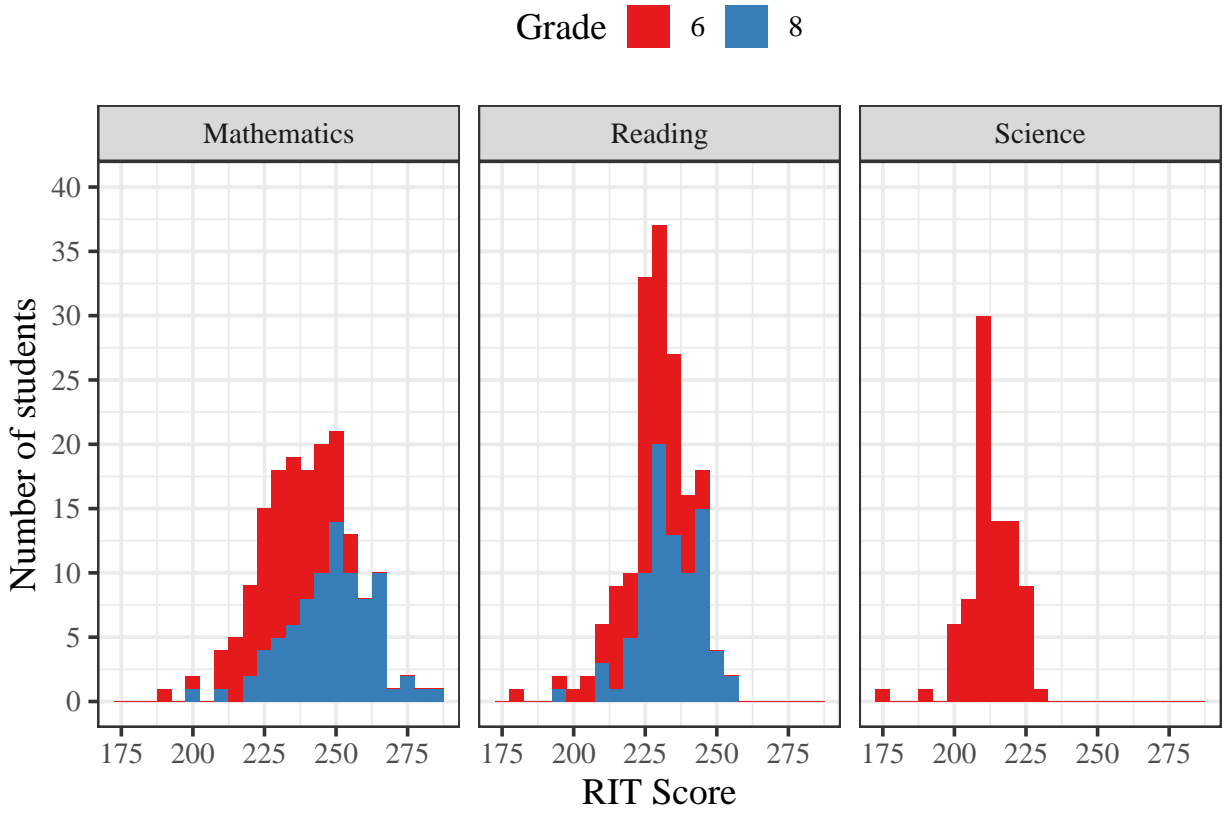# MAP & Mindprint

Felicia Zhang

2018-12-07

Contents

Distribution of MAP Percentiles

Distribution of MAP RIT Score

Distribution of MAP Test Duration
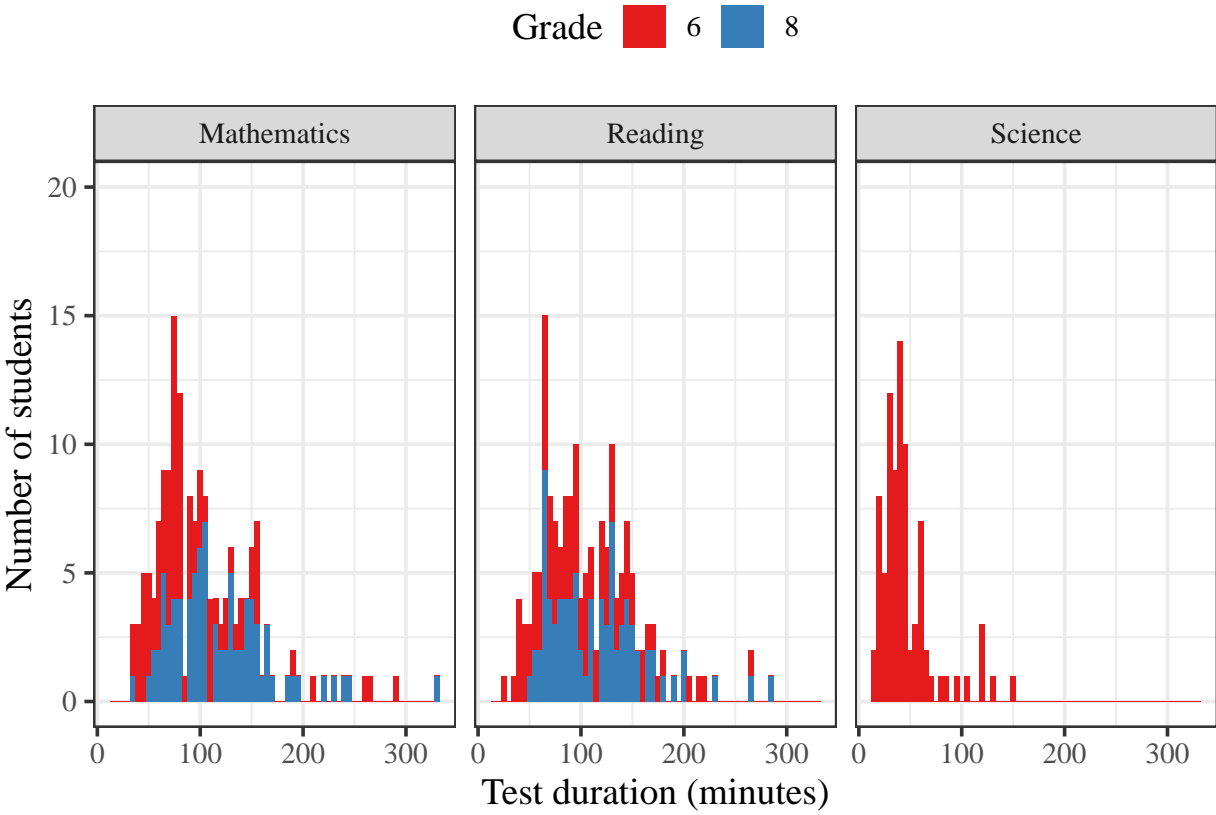
Correlations between overall RIT score, percentile and test duration
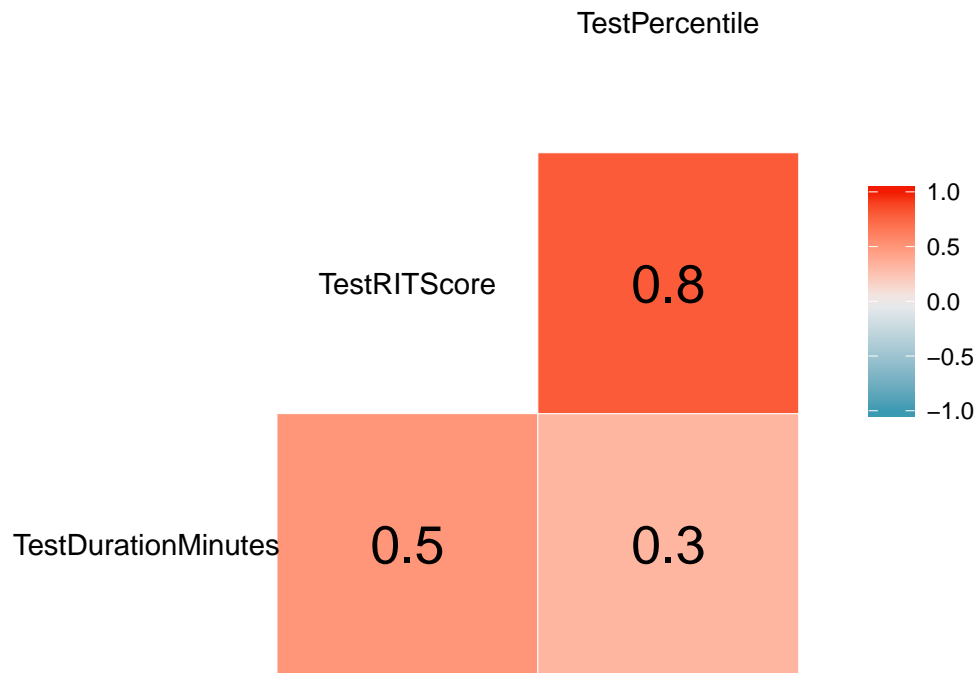
Correlations between RIT scores
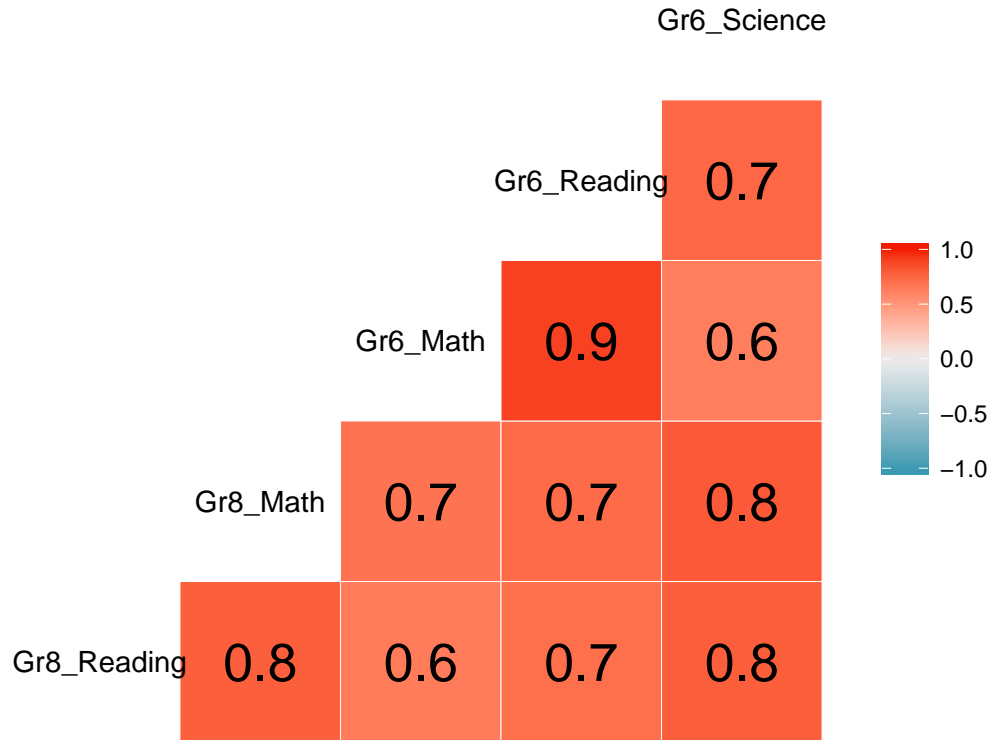
Correlations between percentiles
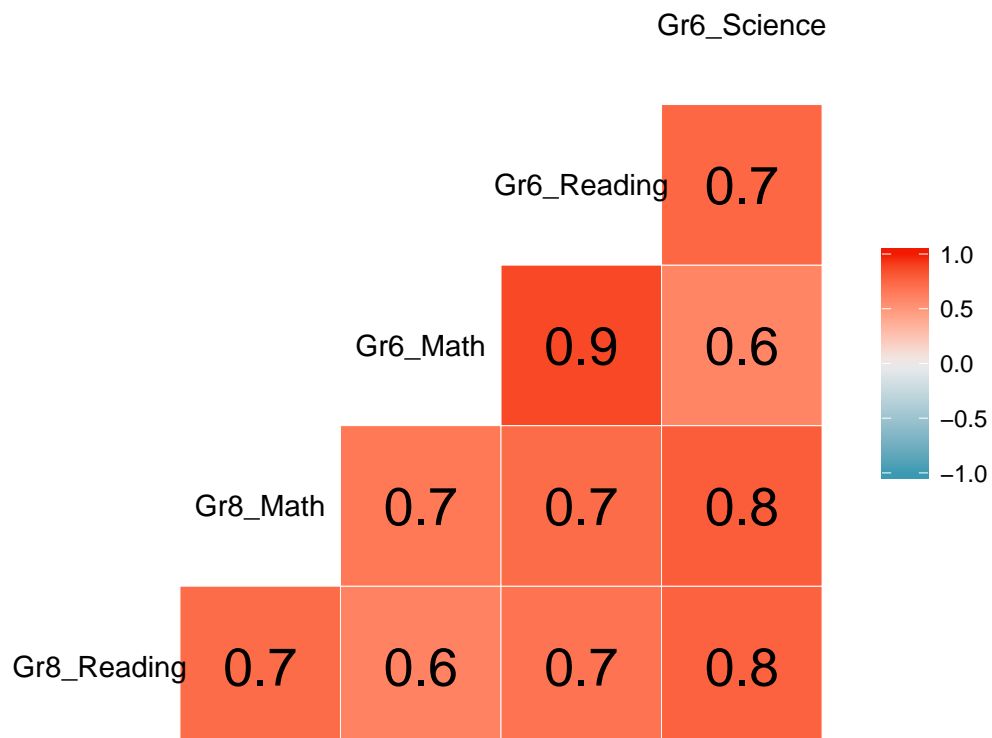
Tree models

Grade 6 Reading trees - percentile

node	sd	mean
2	26.15824	54.41667
4	13.21921	78.38095
5	9.01603	87.02564
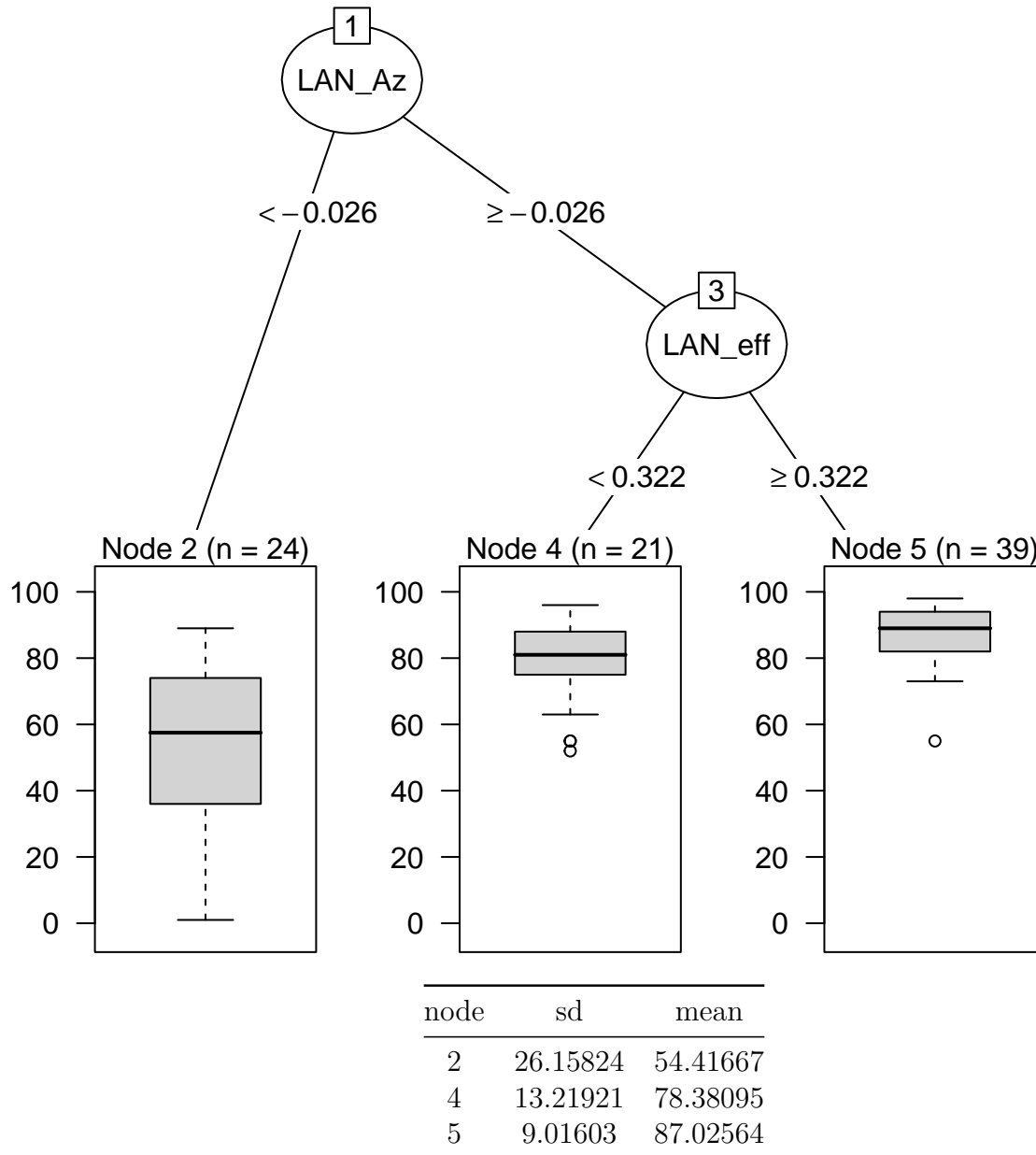
Verbal reasoning accuracy and efficiency are important for Grade 6 reading.

Grade 6 Math trees - percentile

node	sd	mean
2	26.53409	54.83333
4	20.51359	67.04545
5	13.92484	81.13158
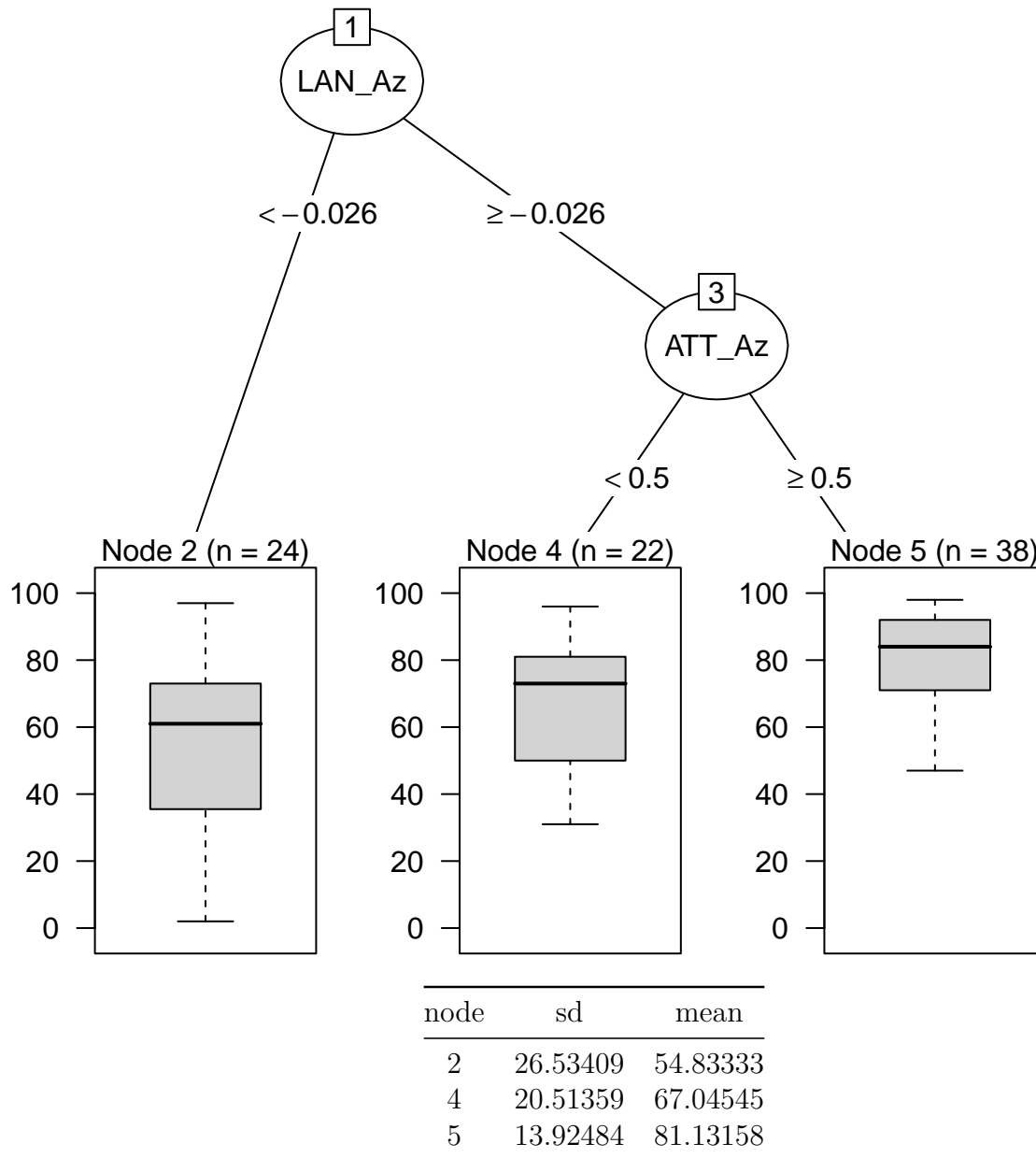
Test duration, verbal reasoning efficiency and abstract reasoning accuracy are important for Grade 6 math.

Grade 6 Science trees - percentile

node	sd	mean
2	20.82484	45.75000
4	18.92161	64.87500
5	13.39035	78.88889
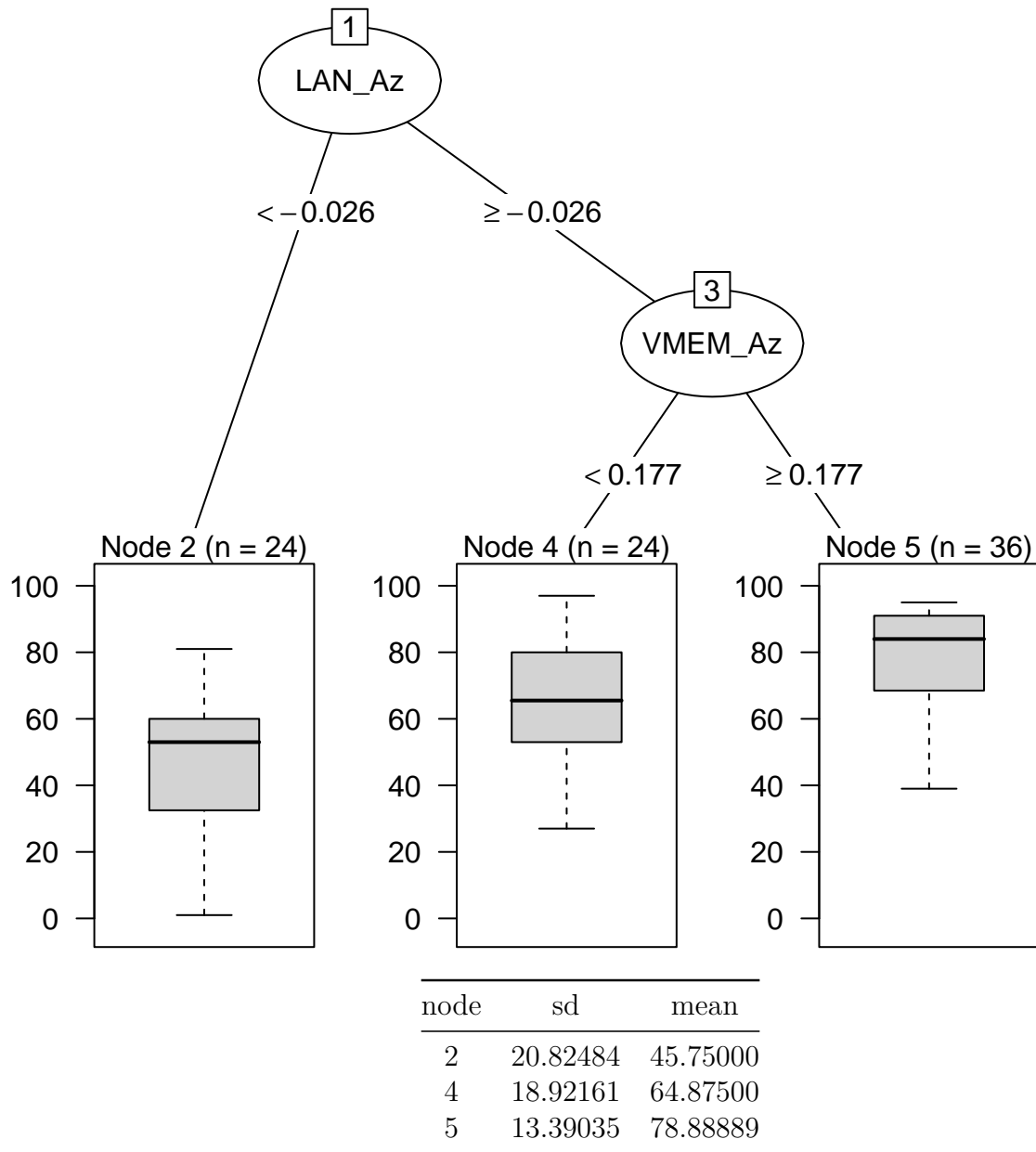
Verbal reasoning accuracy and verbal memory accuracy are important for Grade 6 science.

Grade 8 Reading trees - percentile

node	sd	mean
2	20.57925	61.87500
4	12.11633	81.34483
5	7.40430	90.90323
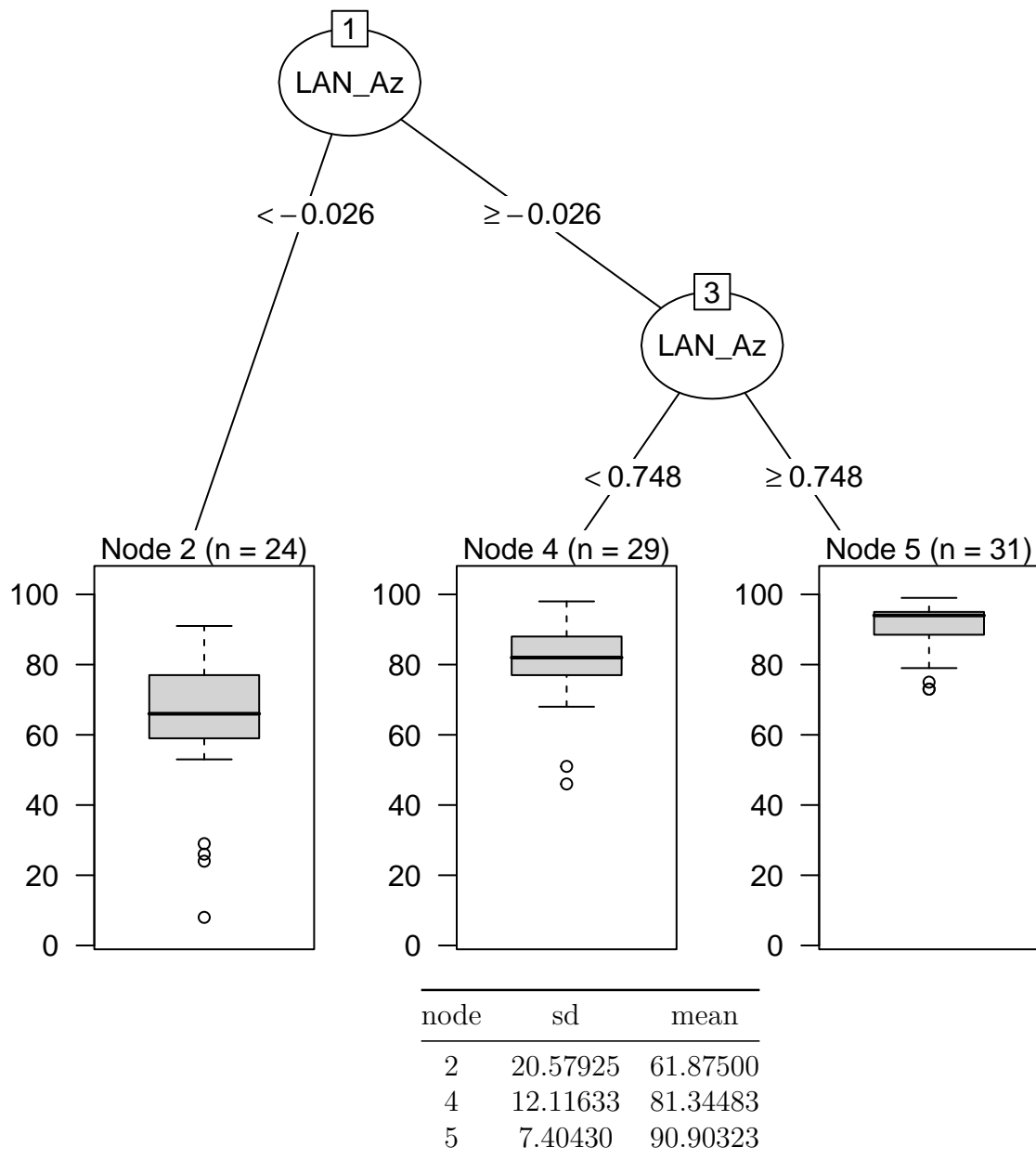
Verbal reasoning accuracy is important for Grade 8 reading.

Grade 8 Math trees - percentile

node	sd	mean
2	26.580477	64.00000
4	16.146783	79.63636
5	8.224664	91.23684
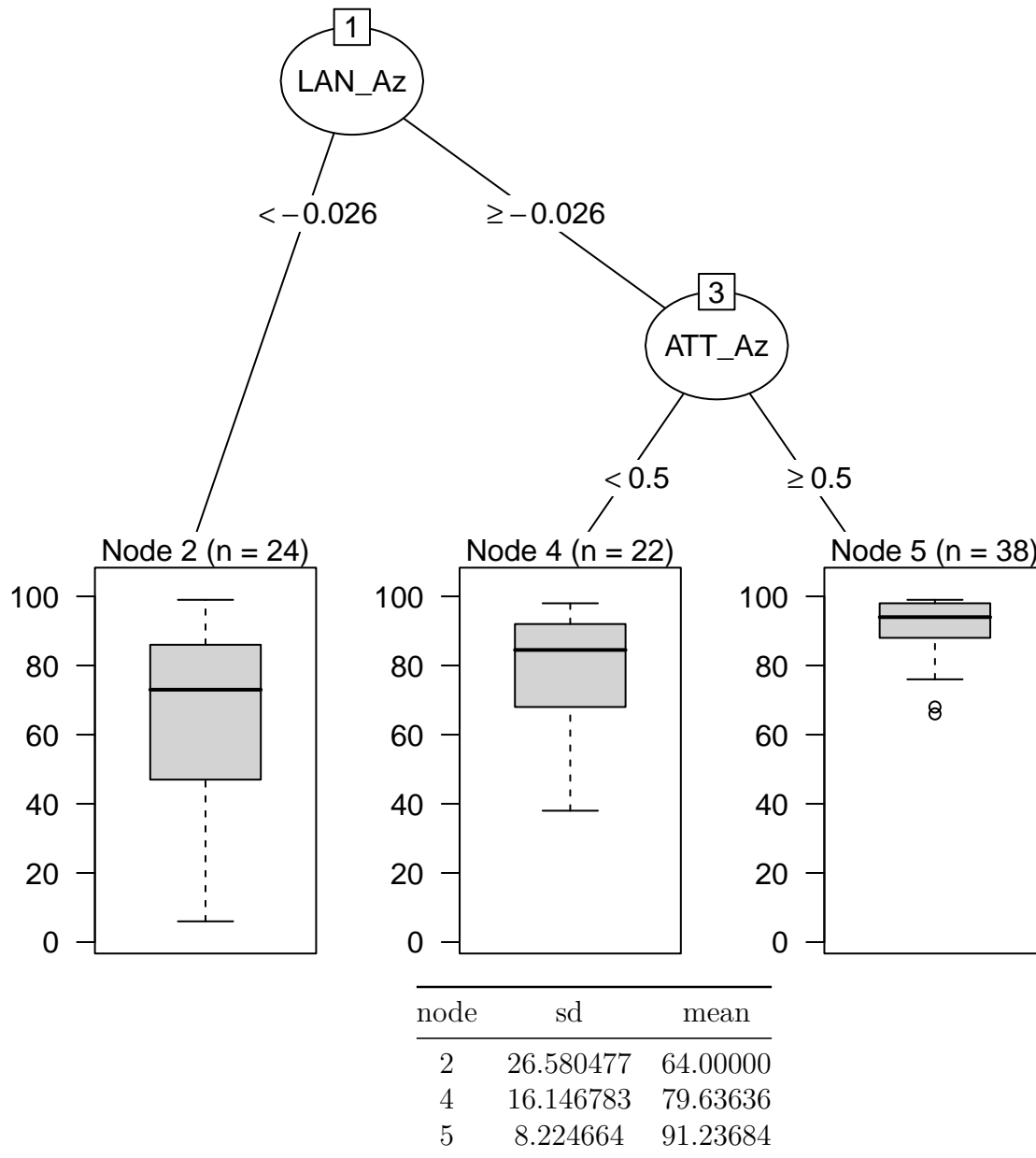
Verbal reasoning efficiency and abstract reasoning accuracy are important for Grade 8 math.

Comparing RIT and percentile regression trees

Grade	Subject	Outcome	Level1	Level2	Level3
6	Reading	RIT	LAN_Az	LAN_eff	NA
6	Math	RIT	TestDuration	LAN_eff	NVR_Az
6	Science	RIT	LAN_Az	VMEM_eff	ABF_Az
8	Reading	RIT	LAN_Az	LAN_Az	NA
8	Math	RIT	LAN_Az	TestDuration	NA
6	Reading	Percentile	LAN_Az	LAN_eff	NA
6	Math	Percentile	TestDuration	LAN_eff	NVR_Az
6	Science	Percentile	LAN_Az	VMEM_Az	NA
8	Reading	Percentile	LAN_Az	LAN_Az	NA
8	Math	Percentile	LAN_eff	NVR_Az	NA

The biggest difference is between Grade 8 Math RIT and Grade 8 Math percentile

Comparing grade 6 and grade 8 regression trees (percentile)

Grade	Subject	Outcome	Level1	Level2	Level3
6	Reading	Percentile	LAN_Az	LAN_eff	NA
8	Reading	Percentile	LAN_Az	LAN_Az	NA
6	Math	Percentile	TestDuration	LAN_eff	NVR_Az
8	Math	Percentile	LAN_eff	NVR_Az	NA

Comparing grade 6 and grade 8 regression trees (RIT score)

Grade	Subject	Outcome	Level1	Level2	Level3
6	Reading	RIT	LAN_Az	LAN_eff	NA
8	Reading	RIT	LAN_Az	LAN_Az	NA
6	Math	RIT	TestDuration	LAN_eff	NVR_Az
8	Math	RIT	LAN_Az	TestDuration	NA