

PIRLS 2011

PIRLS 2011 Item Parameters from Concurrent Calibration

PIRLS 2011 Item Parameters for Concurrent Calibration of Overall Reading

Item	Slope (a_j)	Location (b_j)	Guessing (c_j)	Step 1 (d_{j1})	Step 2 (d_{j2})	Step 3 (d_{j3})
Items Released in 2006:						
R11C01C	1.175 (0.053)	-0.427 (0.031)				
R11C02C	0.763 (0.041)	0.253 (0.035)				
R11C03C	1.137 (0.054)	-0.829 (0.039)				
R11C04M	1.223 (0.115)	0.235 (0.055)	0.213 (0.025)			
R11C05M	0.736 (0.087)	-0.393 (0.170)	0.338 (0.052)			
R11C06C	0.927 (0.045)	-0.294 (0.034)				
R11C07M	0.975 (0.086)	-0.601 (0.110)	0.262 (0.044)			
R11C08C	0.491 (0.021)	0.121 (0.032)		-0.357 (0.062)	0.357 (0.062)	
R11C09M	1.081 (0.117)	0.593 (0.052)	0.172 (0.023)			
R11C10C	0.572 (0.023)	0.054 (0.024)		0.256 (0.058)	-0.406 (0.064)	0.149 (0.061)
R11C11C	0.683 (0.029)	-0.063 (0.029)		0.860 (0.046)	-0.860 (0.041)	
R11C12M	0.632 (0.072)	0.029 (0.137)	0.193 (0.045)			
R11C13M	0.683 (0.083)	0.255 (0.120)	0.207 (0.042)			
R21U01M	0.528 (0.068)	-0.424 (0.235)	0.242 (0.064)			
R21U02M	0.961 (0.079)	-1.110 (0.124)	0.198 (0.051)			
R21U03M	0.545 (0.071)	-0.097 (0.193)	0.218 (0.056)			
R21U04M	0.655 (0.087)	0.189 (0.140)	0.239 (0.046)			
R21U05C	0.875 (0.047)	-0.818 (0.052)				
R21U06C	0.782 (0.043)	-0.823 (0.055)				
R21U07M	0.630 (0.077)	-1.031 (0.260)	0.341 (0.073)			
R21U08C	0.821 (0.040)	-0.353 (0.033)		0.345 (0.043)	-0.345 (0.035)	
R21U09M	0.948 (0.113)	-0.162 (0.123)	0.379 (0.042)			
R21U10C	0.657 (0.040)	-1.205 (0.077)				
R21U11C	0.518 (0.025)	0.375 (0.030)		0.649 (0.059)	-0.534 (0.067)	-0.115 (0.074)
R21U12C	0.690 (0.036)	-0.187 (0.034)		0.507 (0.049)	-0.507 (0.041)	
R11A01C	0.820 (0.047)	-1.627 (0.075)				
R11A02M	0.969 (0.098)	-0.022 (0.088)	0.252 (0.036)			
R11A03C	0.649 (0.037)	-1.217 (0.070)				
R11A04C	0.652 (0.023)	-0.173 (0.032)		1.287 (0.052)	-1.287 (0.043)	
R11A05M	0.911 (0.088)	-1.348 (0.165)	0.320 (0.061)			
R11A06M	0.877 (0.084)	-1.654 (0.187)	0.320 (0.067)			
R11A07C	0.606 (0.025)	-0.660 (0.031)		0.251 (0.075)	-0.026 (0.064)	-0.225 (0.049)

PIRLS 2011 Item Parameters for Concurrent Calibration of Overall Reading (Continued)

Item	Slope (a_j)	Location (b_j)	Guessing (c_j)	Step 1 (d_{j1})	Step 2 (d_{j2})	Step 3 (d_{j3})
R11A08C	0.455 (0.026)	-1.219 (0.059)		0.709 (0.089)	-0.709 (0.056)	
R11A09C	0.585 (0.029)	-0.207 (0.033)		0.632 (0.054)	-0.632 (0.046)	
R11A10M	1.270 (0.101)	-0.050 (0.054)	0.157 (0.026)			
R11A11C	0.731 (0.042)	0.015 (0.037)				
R21S01M	0.716 (0.073)	-0.053 (0.114)	0.178 (0.040)			
R21S02M	0.454 (0.059)	-0.726 (0.300)	0.236 (0.074)			
R21S03M	0.790 (0.079)	-0.745 (0.157)	0.268 (0.055)			
R21S04M	1.160 (0.115)	-0.005 (0.073)	0.243 (0.032)			
R21S05C	0.601 (0.036)	-0.304 (0.050)				
R21S06M	1.028 (0.094)	-0.918 (0.128)	0.292 (0.052)			
R21S07C	0.385 (0.014)	1.041 (0.051)		-1.850 (0.100)	1.850 (0.111)	
R21S09C	0.750 (0.042)	-0.352 (0.045)				
R21S10C	0.714 (0.041)	-0.195 (0.044)				
R21S11C	0.671 (0.045)	0.809 (0.053)				
R21S12C	0.522 (0.041)	1.163 (0.085)				
R21S13C	0.560 (0.043)	1.352 (0.092)				
R21S14M	1.454 (0.171)	0.575 (0.047)	0.220 (0.022)			
R21S15C	0.477 (0.018)	0.356 (0.035)		-1.136 (0.075)	1.136 (0.078)	
Items Common in 2006 and 2011:						
R11F01M	1.070 (0.056)	-0.810 (0.064)	0.146 (0.031)			
R11F02M	0.546 (0.046)	-1.054 (0.214)	0.250 (0.063)			
R11F03M	0.784 (0.048)	-0.904 (0.106)	0.183 (0.042)			
R11F04M	1.091 (0.071)	-1.066 (0.095)	0.299 (0.042)			
R11F05M	0.837 (0.057)	-0.529 (0.095)	0.237 (0.037)			
R11F06C	0.674 (0.026)	-0.395 (0.031)				
R11F07C	0.423 (0.011)	0.371 (0.025)		-1.067 (0.055)	1.067 (0.057)	
R11F08C	0.991 (0.035)	-0.445 (0.026)				
R11F09C	0.862 (0.026)	-0.887 (0.026)		0.108 (0.037)	-0.108 (0.026)	
R11F10C	0.751 (0.031)	-1.650 (0.060)				
R11F11M	0.668 (0.064)	0.330 (0.094)	0.213 (0.033)			
R11F12C	0.588 (0.017)	0.632 (0.022)		-0.419 (0.037)	0.419 (0.042)	
R11F13M	0.915 (0.067)	-0.218 (0.081)	0.259 (0.032)			
R21E01M	1.277 (0.100)	-1.232 (0.105)	0.432 (0.044)			
R21E02M	1.052 (0.070)	-0.490 (0.075)	0.287 (0.032)			
R21E03M	0.467 (0.042)	-0.341 (0.176)	0.159 (0.049)			
R21E04M	1.309 (0.089)	-1.318 (0.092)	0.325 (0.045)			
R21E05C	0.565 (0.015)	-0.594 (0.026)		-0.517 (0.047)	0.517 (0.040)	
R21E06M	1.147 (0.071)	-0.341 (0.059)	0.229 (0.027)			
R21E07C	0.578 (0.019)	-0.300 (0.024)		0.248 (0.039)	-0.248 (0.034)	
R21E08M	1.193 (0.087)	0.537 (0.035)	0.172 (0.017)			
R21E09C	0.481 (0.019)	0.762 (0.030)		0.612 (0.039)	-0.612 (0.049)	
R21E10C	0.873 (0.031)	-0.265 (0.025)				
R21E11M	0.752 (0.067)	0.262 (0.084)	0.241 (0.031)			

PIRLS 2011 Item Parameters for Concurrent Calibration of Overall Reading (Continued)

Item	Slope (a_j)	Location (b_j)	Guessing (c_j)	Step 1 (d_{j1})	Step 2 (d_{j2})	Step 3 (d_{j3})
R21E12C	0.661 (0.022)	0.106 (0.020)		0.379 (0.032)	-0.379 (0.031)	
R21Y01M	1.022 (0.074)	0.123 (0.057)	0.262 (0.024)			
R21Y02M	1.523 (0.106)	-0.203 (0.048)	0.338 (0.023)			
R21Y03C	0.722 (0.030)	0.597 (0.029)				
R21Y04M	1.016 (0.064)	-0.015 (0.055)	0.200 (0.024)			
R21Y05M	1.441 (0.092)	0.034 (0.039)	0.238 (0.019)			
R21Y06M	1.394 (0.087)	0.044 (0.039)	0.229 (0.019)			
R21Y07M	0.683 (0.041)	-1.363 (0.137)	0.167 (0.052)			
R21Y08M	1.256 (0.076)	-0.399 (0.055)	0.242 (0.027)			
R21Y09C	0.851 (0.025)	-0.692 (0.023)		0.099 (0.034)	-0.099 (0.025)	
R21Y10C	0.641 (0.027)	0.523 (0.031)				
R21Y11M	1.234 (0.080)	-0.056 (0.050)	0.270 (0.023)			
R21Y12C	0.600 (0.013)	-0.056 (0.019)		-1.414 (0.052)	1.414 (0.051)	
R21Y13C	0.669 (0.021)	0.398 (0.017)		0.675 (0.033)	-0.265 (0.035)	-0.410 (0.041)
R21Y14C	0.509 (0.015)	0.226 (0.022)		-0.598 (0.045)	0.598 (0.046)	
R11L01M	0.430 (0.033)	-2.955 (0.329)	0.219 (0.085)			
R11L02M	0.684 (0.064)	0.576 (0.073)	0.176 (0.027)			
R11L03C	0.529 (0.024)	-0.667 (0.044)				
R11L04C	0.584 (0.013)	0.372 (0.022)		1.765 (0.040)	-1.176 (0.041)	-0.589 (0.054)
R11L05M	1.083 (0.087)	0.566 (0.042)	0.213 (0.019)			
R11L06C	0.621 (0.026)	0.094 (0.029)				
R11L07M	0.668 (0.057)	0.504 (0.071)	0.145 (0.027)			
R11L08C	0.715 (0.022)	0.608 (0.021)		0.775 (0.027)	-0.775 (0.034)	
R11L09M	0.872 (0.060)	-0.915 (0.114)	0.277 (0.045)			
R11L10C	0.675 (0.024)	0.686 (0.022)		0.208 (0.029)	-0.208 (0.036)	
R11L11M	0.765 (0.052)	-0.443 (0.096)	0.181 (0.037)			
R11L12C	0.658 (0.019)	0.561 (0.023)		0.915 (0.029)	-0.915 (0.036)	
R21K01C	0.352 (0.015)	-1.148 (0.053)		0.208 (0.071)	-0.208 (0.053)	
R21K02C	0.652 (0.026)	-0.915 (0.043)				
R21K03M	0.878 (0.060)	0.052 (0.065)	0.190 (0.026)			
R21K04M	0.867 (0.144)	1.237 (0.077)	0.397 (0.021)			
R21K05C	0.872 (0.031)	-0.064 (0.023)				
R21K06M	1.296 (0.086)	-0.077 (0.049)	0.267 (0.023)			
R21K07C	0.617 (0.019)	0.032 (0.020)		0.124 (0.035)	-0.124 (0.033)	
R21K08M	0.930 (0.076)	0.391 (0.058)	0.232 (0.024)			
R21K09M	1.118 (0.081)	0.061 (0.057)	0.280 (0.025)			
R21K10C	0.674 (0.019)	0.841 (0.023)		-0.386 (0.034)	0.386 (0.041)	
R21K11M	0.930 (0.073)	0.241 (0.062)	0.232 (0.025)			
R21K12C	0.527 (0.017)	-0.203 (0.020)		0.403 (0.050)	-0.073 (0.046)	-0.330 (0.042)
R21N01M	0.764 (0.058)	-0.821 (0.135)	0.270 (0.049)			
R21N02C	0.700 (0.027)	-0.627 (0.035)				
R21N03C	0.710 (0.025)	1.070 (0.028)		0.392 (0.027)	-0.392 (0.041)	
R21N04M	1.118 (0.070)	0.172 (0.043)	0.169 (0.020)			

PIRLS 2011 Item Parameters for Concurrent Calibration of Overall Reading (Continued)

Item	Slope (a_j)	Location (b_j)	Guessing (c_j)	Step 1 (d_{j1})	Step 2 (d_{j2})	Step 3 (d_{j3})
R21N05M	1.375 (0.097)	-1.034 (0.082)	0.306 (0.041)			
R21N06M	1.238 (0.068)	-0.677 (0.057)	0.155 (0.029)			
R21N07M	0.908 (0.060)	-0.220 (0.071)	0.189 (0.030)			
R21N08C	0.864 (0.031)	-0.347 (0.026)				
R21N09M	1.028 (0.074)	-0.363 (0.080)	0.303 (0.033)			
R21N10M	1.020 (0.112)	0.565 (0.065)	0.404 (0.023)			
R21N11C	0.515 (0.014)	-0.040 (0.022)		-0.580 (0.045)	0.580 (0.044)	
R21N12C	0.559 (0.020)	0.098 (0.022)		0.140 (0.038)	-0.140 (0.037)	
Items Introduced in 2011:						
R31M01M	1.238 (0.106)	-1.137 (0.120)	0.228 (0.067)			
R31M02C	1.080 (0.057)	-1.212 (0.053)				
R31M03M	1.138 (0.099)	-0.171 (0.078)	0.207 (0.038)			
R31M04C	0.507 (0.035)	0.359 (0.051)				
R31M05M	1.349 (0.147)	0.023 (0.081)	0.423 (0.033)			
R31M06M	1.009 (0.116)	0.309 (0.084)	0.280 (0.035)			
R31M07M	1.357 (0.121)	-0.518 (0.085)	0.270 (0.044)			
R31M08M	1.135 (0.093)	-0.731 (0.103)	0.209 (0.052)			
R31M09C	0.611 (0.019)	-0.173 (0.035)		1.494 (0.057)	-1.494 (0.047)	
R31M10C	0.522 (0.036)	0.383 (0.049)				
R31M11M	0.731 (0.079)	-0.883 (0.222)	0.226 (0.086)			
R31M12M	0.925 (0.078)	-0.085 (0.084)	0.136 (0.038)			
R31M13M	1.681 (0.146)	-0.935 (0.083)	0.257 (0.052)			
R31M14M	1.901 (0.154)	-0.369 (0.049)	0.199 (0.031)			
R31M15M	1.105 (0.095)	-0.082 (0.077)	0.202 (0.036)			
R31M16C	1.085 (0.050)	-0.031 (0.028)				
R31M17CZ	0.499 (0.022)	-0.102 (0.028)		0.135 (0.075)	0.265 (0.070)	-0.400 (0.061)
R31P01M	0.967 (0.083)	-0.558 (0.112)	0.151 (0.053)			
R31P02C	0.772 (0.041)	-0.856 (0.057)				
R31P03C	0.890 (0.046)	-0.715 (0.048)				
R31P04M	0.835 (0.091)	0.632 (0.070)	0.128 (0.030)			
R31P05C	0.615 (0.024)	0.458 (0.030)		-0.326 (0.049)	0.326 (0.053)	
R31P06C	1.120 (0.056)	-0.795 (0.045)				
R31P07C	0.856 (0.033)	-0.213 (0.029)		-0.122 (0.041)	0.122 (0.036)	
R31P08M	1.029 (0.100)	-0.361 (0.114)	0.277 (0.049)			
R31P09C	1.008 (0.051)	-0.667 (0.045)				
R31P10M	1.370 (0.107)	-0.788 (0.089)	0.179 (0.050)			
R31P11M	0.920 (0.080)	-0.379 (0.107)	0.138 (0.049)			
R31P12M	1.110 (0.093)	0.041 (0.068)	0.167 (0.032)			

PIRLS 2011 Item Parameters for Concurrent Calibration of Overall Reading (Continued)

Item	Slope (a_j)	Location (b_j)	Guessing (c_j)	Step 1 (d_{j1})	Step 2 (d_{j2})	Step 3 (d_{j3})
R31P13M	1.032 (0.096)	-1.031 (0.154)	0.200 (0.079)			
R31P14C	1.013 (0.050)	-0.086 (0.034)				
R31P15C	0.539 (0.028)	0.435 (0.035)		0.225 (0.052)	-0.225 (0.057)	
R31P16C	0.675 (0.045)	0.770 (0.049)				
R31G01M	0.996 (0.098)	-0.655 (0.139)	0.268 (0.062)			
R31G02C	0.684 (0.038)	-0.181 (0.043)				
R31G03M	1.052 (0.103)	-0.314 (0.107)	0.258 (0.047)			
R31G04C	0.881 (0.050)	1.014 (0.047)				
R31G05M	1.095 (0.128)	0.508 (0.070)	0.288 (0.029)			
R31G06M	0.889 (0.081)	-0.467 (0.124)	0.164 (0.056)			
R31G07M	0.958 (0.090)	0.063 (0.085)	0.175 (0.038)			
R31G08CZ	0.700 (0.036)	1.072 (0.040)		0.340 (0.039)	-0.340 (0.057)	
R31G09M	0.739 (0.082)	-0.032 (0.136)	0.172 (0.053)			
R31G10C	0.866 (0.046)	0.611 (0.037)				
R31G11M	1.516 (0.155)	0.334 (0.055)	0.325 (0.025)			
R31G12C	0.395 (0.020)	1.824 (0.086)		-0.963 (0.085)	0.963 (0.117)	
R31G13CZ	0.751 (0.026)	0.115 (0.024)		-0.274 (0.050)	0.101 (0.056)	0.172 (0.046)
R31G14M	1.175 (0.117)	0.318 (0.065)	0.228 (0.030)			
R31W01C	0.697 (0.032)	-0.674 (0.035)		0.298 (0.054)	-0.298 (0.040)	
R31W02C	0.709 (0.027)	0.291 (0.025)		-0.149 (0.044)	0.149 (0.045)	
R31W03M	1.275 (0.112)	-0.043 (0.067)	0.220 (0.033)			
R31W04C	0.723 (0.040)	-0.853 (0.055)				
R31W05M	1.195 (0.143)	0.546 (0.062)	0.284 (0.027)			
R31W06M	0.614 (0.075)	-1.247 (0.354)	0.181 (0.133)			
R31W07CZ	0.835 (0.030)	0.493 (0.019)		-0.078 (0.042)	0.172 (0.048)	-0.094 (0.046)
R31W08M	1.270 (0.131)	-0.115 (0.089)	0.374 (0.038)			
R31W09M	0.741 (0.086)	0.446 (0.099)	0.146 (0.040)			
R31W10M	1.186 (0.107)	0.296 (0.057)	0.179 (0.028)			
R31W11C	1.372 (0.067)	0.537 (0.024)				
R31W12M	1.339 (0.153)	0.738 (0.047)	0.217 (0.022)			
R31W13C	0.733 (0.045)	0.883 (0.049)				

prePIRLS 2011 Item Parameters for Calibration of Overall Reading

Item	Slope (a_j)	Location (b_j)	Guessing (c_j)	Step 1 (d_{j1})	Step 2 (d_{j2})	Step 3 (d_{j3})
L11B01C	1.101 (0.114)	-2.102 (0.080)				
L11B02C	0.939 (0.099)	-2.216 (0.091)				
L11B03C	0.422 (0.046)	-1.398 (0.114)		0.962 (0.181)	-0.962 (0.196)	
L11B04M	0.608 (0.130)	-1.042 (0.222)	0.178 (0.053)			
L11B05C	0.715 (0.082)	-1.093 (0.111)				
L11B06M	1.555 (0.259)	-1.953 (0.112)	0.211 (0.045)			
L11B07C	1.198 (0.123)	-1.795 (0.075)				
L11B08C	0.708 (0.065)	-1.127 (0.075)		0.158 (0.125)	-0.158 (0.137)	
L11B09M	1.307 (0.207)	-1.890 (0.121)	0.185 (0.045)			
L11B10C	1.074 (0.115)	-1.150 (0.082)				
L11B11C	0.783 (0.085)	-1.775 (0.100)				
L11B12M	1.062 (0.172)	-1.920 (0.150)	0.196 (0.050)			
L11B14M	1.030 (0.193)	-1.159 (0.142)	0.189 (0.042)			
L11B15C	0.547 (0.068)	-1.423 (0.133)				
L11B16C	1.161 (0.122)	-1.807 (0.079)				
L11B17C	1.034 (0.124)	-0.606 (0.097)				
L11B18C	0.860 (0.097)	-1.115 (0.099)				
L11L01C	0.900 (0.098)	-2.620 (0.106)				
L11L02M	1.247 (0.229)	-1.668 (0.143)	0.280 (0.048)			
L11L03C	0.613 (0.070)	-2.500 (0.134)				
L11L04M	1.222 (0.232)	-0.915 (0.115)	0.174 (0.034)			
L11L05M	1.190 (0.227)	-0.995 (0.121)	0.192 (0.036)			
L11L06M	0.575 (0.146)	-0.911 (0.264)	0.234 (0.060)			
L11L07M	1.258 (0.261)	-0.989 (0.129)	0.250 (0.039)			
L11L08M	0.892 (0.305)	-0.608 (0.244)	0.222 (0.078)			
L11L09M	1.018 (0.155)	-1.963 (0.139)	0.158 (0.044)			
L11L10M	1.655 (0.284)	-1.737 (0.104)	0.215 (0.041)			
L11L11C	0.735 (0.083)	-1.325 (0.105)				
L11L12M	1.279 (0.202)	-2.073 (0.125)	0.191 (0.046)			
L11L13C	0.343 (0.056)	-0.791 (0.232)				
L11L14C	1.012 (0.108)	-1.480 (0.084)				
L11L15C	1.021 (0.110)	-1.356 (0.084)				
L11O01M	1.193 (0.207)	-2.030 (0.154)	0.272 (0.054)			
L11O02C	0.661 (0.077)	-0.916 (0.123)				
L11O03M	1.273 (0.226)	-2.726 (0.159)	0.255 (0.061)			
L11O04M	1.052 (0.175)	-1.705 (0.149)	0.210 (0.048)			
L11O05C	0.745 (0.081)	-1.374 (0.103)				
L11O06C	0.500 (0.064)	-1.124 (0.148)				
L11O07M	0.636 (0.141)	-1.493 (0.281)	0.280 (0.067)			
L11O08M	0.697 (0.185)	-0.717 (0.235)	0.277 (0.055)			
L11O09C	1.088 (0.111)	-1.436 (0.080)				
L11O10C	0.897 (0.102)	-3.087 (0.122)				

prePIRLS 2011 Item Parameters for Calibration of Overall Reading (Continued)

Item	Slope (a_j)	Location (b_j)	Guessing (c_j)	Step 1 (d_{j1})	Step 2 (d_{j2})	Step 3 (d_{j3})
L11O11C	0.547 (0.065)	-1.900 (0.132)				
L11O12M	0.570 (0.111)	-1.892 (0.288)	0.217 (0.069)			
L11O13M	0.844 (0.224)	-0.155 (0.177)	0.173 (0.036)			
L11O14C	0.887 (0.093)	-1.852 (0.093)				
L11O15C	0.693 (0.066)	-0.273 (0.095)		-0.290 (0.149)	0.290 (0.184)	
L11O16M	1.475 (0.286)	-0.721 (0.100)	0.157 (0.029)			
L11U01C	0.577 (0.068)	-2.380 (0.136)				
L11U02M	0.903 (0.156)	-2.462 (0.206)	0.248 (0.065)			
L11U03M	0.955 (0.176)	-1.396 (0.157)	0.218 (0.048)			
L11U04C	0.494 (0.064)	-1.421 (0.141)				
L11U05M	0.726 (0.138)	-1.320 (0.189)	0.185 (0.051)			
L11U06M	0.920 (0.173)	-1.216 (0.154)	0.198 (0.045)			
L11U07M	0.996 (0.283)	-0.037 (0.176)	0.207 (0.034)			
L11U08M	1.230 (0.326)	-0.302 (0.144)	0.259 (0.034)			
L11U09M	1.502 (0.315)	-1.130 (0.119)	0.294 (0.040)			
L11U10C	0.562 (0.082)	-0.024 (0.210)				
L11U11C	0.517 (0.053)	-1.505 (0.093)		0.504 (0.157)	-0.504 (0.162)	
L11U12C	0.866 (0.095)	-1.235 (0.094)				
L11U13M	1.573 (0.328)	-1.062 (0.112)	0.268 (0.038)			
L11U14C	0.677 (0.099)	0.104 (0.195)				
L11A01M	0.872 (0.153)	-2.999 (0.243)	0.250 (0.075)			
L11A02C	0.546 (0.067)	-1.371 (0.132)				
L11A03M	0.707 (0.122)	-2.086 (0.221)	0.200 (0.061)			
L11A04C	0.770 (0.084)	-1.425 (0.101)				
L11A05M	1.297 (0.284)	-0.535 (0.116)	0.185 (0.031)			
L11A06C	1.123 (0.124)	-2.539 (0.088)				
L11A07C	0.785 (0.070)	-2.508 (0.075)		0.048 (0.140)	-0.048 (0.118)	
L11A08M	1.034 (0.192)	-1.243 (0.144)	0.206 (0.043)			
L11A09C	1.172 (0.122)	-1.836 (0.076)				
L11A10C	0.717 (0.088)	-0.688 (0.127)				
L11A11C	0.484 (0.075)	-0.019 (0.243)				
L11A12CZ	0.689 (0.054)	-1.218 (0.060)		-0.075 (0.149)	0.076 (0.181)	-0.001 (0.163)
L11A13CZ	0.514 (0.052)	-0.962 (0.100)		0.088 (0.162)	-0.088 (0.187)	
L11A14M	0.835 (0.169)	-0.783 (0.154)	0.141 (0.039)			
L11C01C	1.079 (0.123)	-2.822 (0.097)				
L11C02C	0.765 (0.083)	-2.151 (0.103)				
L11C03C	0.527 (0.067)	-1.326 (0.137)				
L11C04M	1.183 (0.224)	-1.284 (0.134)	0.230 (0.043)			
L11C05M	0.740 (0.178)	-0.591 (0.187)	0.184 (0.044)			
L11C06M	0.691 (0.145)	-1.271 (0.218)	0.218 (0.057)			
L11C07C	1.021 (0.106)	-1.869 (0.082)				
L11C08C	1.056 (0.109)	-1.940 (0.081)				

prePIRLS 2011 Item Parameters for Calibration of Overall Reading (Continued)

Item	Slope (a_j)	Location (b_j)	Guessing (c_j)	Step 1 (d_{j1})	Step 2 (d_{j2})	Step 3 (d_{j3})
L11C09C	0.841 (0.090)	-1.977 (0.095)				
L11C10M	1.089 (0.213)	-1.074 (0.135)	0.202 (0.040)			
L11C11M	1.228 (0.193)	-2.130 (0.133)	0.197 (0.050)			
L11C12M	1.686 (0.488)	-0.170 (0.121)	0.258 (0.029)			
L11C13M	1.235 (0.197)	-1.765 (0.124)	0.180 (0.044)			
L11C14M	1.635 (0.293)	-1.258 (0.096)	0.180 (0.034)			
L11C15C	0.669 (0.079)	-1.247 (0.116)				
L11C16C	0.727 (0.092)	-0.601 (0.132)				
L11D01C	0.861 (0.090)	-2.189 (0.098)				
L11D02M	0.999 (0.174)	-1.562 (0.154)	0.219 (0.047)			
L11D03C	0.544 (0.064)	-1.725 (0.131)				
L11D04C	0.759 (0.086)	-0.958 (0.109)				
L11D05C	0.332 (0.037)	-1.690 (0.129)		0.237 (0.239)	-0.237 (0.240)	
L11D06M	0.622 (0.128)	-1.517 (0.252)	0.227 (0.061)			
L11D07M	1.190 (0.237)	-0.643 (0.116)	0.156 (0.030)			
L11D08M	1.349 (0.243)	-1.222 (0.115)	0.202 (0.037)			
L11D09C	0.804 (0.086)	-2.267 (0.106)				
L11D10C	0.911 (0.096)	-1.593 (0.090)				
L11D11M	0.775 (0.184)	-0.085 (0.181)	0.107 (0.029)			
L11D12C	0.860 (0.091)	-1.615 (0.094)				
L11D13M	1.823 (0.393)	-0.814 (0.099)	0.250 (0.033)			
L11D14M	1.380 (0.340)	-0.425 (0.123)	0.241 (0.033)			
L11D15C	0.669 (0.083)	-0.704 (0.132)				
L11D16C	0.711 (0.115)	0.411 (0.226)				
L11P01M	1.526 (0.328)	-0.638 (0.107)	0.213 (0.031)			
L11P02M	1.235 (0.236)	-1.033 (0.122)	0.208 (0.038)			
L11P03C	0.646 (0.065)	-0.801 (0.089)		0.458 (0.125)	-0.458 (0.156)	
L11P04C	0.835 (0.092)	-2.560 (0.110)				
L11P05M	0.924 (0.165)	-1.460 (0.161)	0.207 (0.048)			
L11P06C	0.650 (0.075)	-2.628 (0.134)				
L11P07C	0.791 (0.096)	-0.577 (0.120)				
L11P08M	1.173 (0.227)	-1.091 (0.131)	0.222 (0.041)			
L11P09M	1.321 (0.247)	-1.185 (0.120)	0.221 (0.039)			
L11P10M	1.071 (0.231)	-0.925 (0.150)	0.255 (0.043)			
L11P11C	0.498 (0.049)	-0.830 (0.104)		-0.034 (0.168)	0.034 (0.197)	
L11P12C	0.478 (0.069)	-0.502 (0.192)				
L11P13C	0.980 (0.116)	-0.626 (0.101)				
L11P14C	0.607 (0.079)	-0.697 (0.145)				