

APPENDIX G

ITEM-LEVEL CLASSICAL STATISTICS

Table G-1. 2017 Next-Generation MCAS and MCAS-Alt Technical Report: Item-Level Classical Test Theory Statistics – ELA Grade 3*

| Item | | Type | Difficulty | Discrimination | Percent Omitted (%) |
|-----------------------------------|--|------|------------|----------------|---------------------|
| Number | | | | | |
| AA431349718 | | OR | 0.75 | 0.51 | 0 |
| AA431350276 | | OR | 0.45 | 0.39 | 0 |
| AA431420894 | | OR | 0.52 | 0.40 | 0 |
| AA431421954 | | OR | 0.53 | 0.38 | 0 |
| AA431426588#SCORE_TRAIT_Conventio | | WP | 0.41 | 0.61 | 0 |
| AA431426588#SCORE_TRAIT_Expressio | | WP | 0.38 | 0.55 | 0 |
| EL307194 | | MC | 0.88 | 0.40 | 0 |
| EL307196 | | MC | 0.54 | 0.17 | 0 |
| EL307197 | | MC | 0.48 | 0.24 | 0 |
| EL307202 | | MC | 0.43 | 0.20 | 0 |
| EL307203 | | MC | 0.50 | 0.34 | 0 |
| EL307205 | | MC | 0.37 | 0.26 | 0 |
| EL307208 | | MC | 0.76 | 0.40 | 0 |
| EL307210 | | OR | 0.39 | 0.37 | 0 |
| EL308387 | | MC | 0.93 | 0.29 | 0 |
| EL308388 | | MC | 0.69 | 0.45 | 0 |
| EL308390 | | MC | 0.80 | 0.45 | 0 |
| EL308394 | | MC | 0.66 | 0.36 | 0 |
| EL308404 | | MC | 0.88 | 0.45 | 0 |
| EL308406 | | MC | 0.91 | 0.33 | 0 |
| EL308407 | | MC | 0.69 | 0.44 | 0 |
| EL308414 | | MC | 0.83 | 0.42 | 0 |
| EL308415 | | MC | 0.74 | 0.26 | 0 |
| EL308416 | | MC | 0.84 | 0.43 | 0 |
| EL308418 | | MC | 0.66 | 0.35 | 0 |
| EL308425#SCORE_TRAIT_Conv | | WP | 0.50 | 0.60 | 0 |
| EL308425#SCORE_TRAIT_Ideadev | | WP | 0.37 | 0.61 | 0 |

*Note: calculations in the Appendix represent the combined sample of online and paper tests.

Table G-2. 2017 Next-Generation MCAS and MCAS-Alt Technical Report: Item-Level Classical Test Theory Statistics – ELA Grade 4

| Item | | Difficulty | Discrimination | Percent Omitted (%) |
|----------------------------------|------|------------|----------------|---------------------|
| Number | Type | | | |
| VF864569 | OR | 0.73 | 0.33 | 0 |
| VF864710 | OR | 0.53 | 0.24 | 0 |
| VF864718 | OR | 0.76 | 0.51 | 0 |
| VF865403 | OR | 0.45 | 0.24 | 1 |
| VF865622 | OR | 0.65 | 0.52 | 0 |
| VF865628#SCORE_TRAIT_Conventions | WP | 0.55 | 0.65 | 0 |
| VF865628#SCORE_TRAIT_Expression | WP | 0.56 | 0.65 | 0 |
| EL307734 | MC | 0.56 | 0.26 | 0 |
| EL307735 | MC | 0.77 | 0.38 | 0 |
| EL307736 | MC | 0.73 | 0.41 | 0 |
| EL307738 | MC | 0.84 | 0.46 | 0 |
| EL307739 | MC | 0.59 | 0.29 | 0 |
| EL307741 | MC | 0.75 | 0.52 | 0 |
| EL307747 | MC | 0.72 | 0.46 | 0 |
| EL307750 | OR | 0.47 | 0.46 | 0 |
| EL308191 | MC | 0.76 | 0.48 | 0 |
| EL308192 | MC | 0.92 | 0.48 | 0 |
| EL308195 | MC | 0.81 | 0.41 | 0 |
| EL308196 | MC | 0.90 | 0.42 | 0 |
| EL308197 | MC | 0.69 | 0.46 | 0 |
| EL308200 | MC | 0.73 | 0.47 | 0 |
| EL308204 | MC | 0.60 | 0.37 | 0 |
| EL308207 | MC | 0.67 | 0.38 | 0 |
| EL308210 | MC | 0.81 | 0.40 | 0 |
| EL308212 | MC | 0.82 | 0.45 | 0 |
| EL308213 | MC | 0.80 | 0.53 | 0 |
| EL308215#SCORE_TRAIT_Conv | WP | 0.56 | 0.62 | 0 |
| EL308215#SCORE_TRAIT_Ideadev | WP | 0.42 | 0.62 | 0 |

Table G-3. 2017 Next-Generation MCAS and MCAS-Alt Technical Report: Item-Level Classical Test Theory Statistics – ELA Grade 5

| Item | | Type | Difficulty | Discrimination | Percent Omitted (%) |
|-----------------------------------|--|------|------------|----------------|---------------------|
| Number | | | | | |
| CC434448130 | | OR | 0.80 | 0.40 | 0 |
| CC434456242 | | OR | 0.58 | 0.32 | 0 |
| CC434542756#SCORE_TRAIT_Conventio | | WP | 0.58 | 0.70 | 0 |
| CC434542756#SCORE_TRAIT_Expressio | | WP | 0.60 | 0.69 | 0 |
| EL634356317 | | OR | 0.77 | 0.44 | 0 |
| EL634356787 | | OR | 0.56 | 0.20 | 0 |
| EL296503 | | MC | 0.89 | 0.21 | 0 |
| EL296504 | | MC | 0.83 | 0.33 | 0 |
| EL296509 | | MC | 0.56 | 0.34 | 0 |
| EL296510 | | MC | 0.81 | 0.18 | 0 |
| EL296511 | | MC | 0.85 | 0.42 | 0 |
| EL296513 | | MC | 0.62 | 0.43 | 0 |
| EL296515#SCORE_TRAIT_Conv | | WP | 0.51 | 0.65 | 0 |
| EL296515#SCORE_TRAIT_Ideadev | | WP | 0.38 | 0.63 | 0 |
| EL302107 | | MC | 0.80 | 0.42 | 0 |
| EL302108 | | MC | 0.80 | 0.46 | 0 |
| EL302110 | | MC | 0.86 | 0.32 | 0 |
| EL302112 | | MC | 0.87 | 0.39 | 0 |
| EL302113 | | MC | 0.76 | 0.39 | 0 |
| EL302114 | | MC | 0.81 | 0.35 | 0 |
| EL302118 | | MC | 0.67 | 0.48 | 0 |
| EL302124 | | MC | 0.67 | 0.41 | 0 |
| EL302125 | | MC | 0.79 | 0.47 | 0 |
| EL302126 | | MC | 0.87 | 0.34 | 0 |
| EL302129 | | MC | 0.72 | 0.44 | 0 |
| EL302130 | | MC | 0.79 | 0.38 | 0 |
| EL302132#SCORE_TRAIT_Conv | | WP | 0.60 | 0.64 | 0 |
| EL302132#SCORE_TRAIT_Ideadev | | WP | 0.45 | 0.61 | 0 |

Table G-4. 2017 Next-Generation MCAS and MCAS-Alt Technical Report: Item-Level Classical Test Theory Statistics – ELA Grade 6

| Item | | Type | Difficulty | Discrimination | Percent Omitted (%) |
|------------------------------|--|------|------------|----------------|---------------------|
| Number | | | | | |
| 3329_A | | OR | 0.65 | 0.49 | 0 |
| 3331_A | | OR | 0.58 | 0.56 | 0 |
| 3333#SCORE_TRAIT_Conventions | | WP | 0.55 | 0.71 | 1 |
| 3333#SCORE_TRAIT_Expression | | WP | 0.43 | 0.69 | 1 |
| 3921_A | | OR | 0.48 | 0.48 | 0 |
| 3922_A | | OR | 0.70 | 0.55 | 0 |
| EL312586 | | MC | 0.93 | 0.33 | 0 |
| EL312587 | | MC | 0.82 | 0.39 | 0 |
| EL312590 | | MC | 0.76 | 0.41 | 0 |
| EL312595 | | MC | 0.77 | 0.38 | 0 |
| EL312596 | | MC | 0.54 | 0.46 | 0 |
| EL312599 | | MC | 0.74 | 0.39 | 0 |
| EL312602 | | MC | 0.75 | 0.44 | 0 |
| EL312604 | | MC | 0.81 | 0.36 | 0 |
| EL312611#SCORE_TRAIT_Conv | | WP | 0.58 | 0.67 | 1 |
| EL312611#SCORE_TRAIT_Ideadev | | WP | 0.37 | 0.66 | 1 |
| EL313001 | | MC | 0.61 | 0.43 | 0 |
| EL314158 | | MC | 0.39 | 0.31 | 0 |
| EL314160 | | MC | 0.78 | 0.48 | 0 |
| EL314162 | | MC | 0.54 | 0.40 | 0 |
| EL314167 | | MC | 0.70 | 0.54 | 0 |
| EL314169 | | MC | 0.69 | 0.44 | 0 |
| EL314170 | | MC | 0.77 | 0.42 | 0 |
| EL314172 | | MC | 0.58 | 0.42 | 0 |
| EL314173 | | MC | 0.67 | 0.32 | 0 |
| EL314180 | | MC | 0.53 | 0.24 | 0 |
| EL314182#SCORE_TRAIT_Conv | | WP | 0.56 | 0.72 | 1 |
| EL314182#SCORE_TRAIT_Ideadev | | WP | 0.34 | 0.71 | 1 |

Table G-5. 2017 Next-Generation MCAS and MCAS-Alt Technical Report: Item-Level Classical Test Theory Statistics – ELA Grade 7

| Item | | Type | Difficulty | Discrimination | Percent Omitted (%) |
|----------------------------------|--|------|------------|----------------|---------------------|
| Number | | | | | |
| EL298736 | | MC | 0.45 | 0.28 | 0 |
| EL298737 | | MC | 0.76 | 0.29 | 0 |
| EL298738 | | MC | 0.69 | 0.37 | 0 |
| EL298740 | | MC | 0.68 | 0.22 | 0 |
| EL298741 | | MC | 0.66 | 0.42 | 0 |
| EL298745 | | MC | 0.55 | 0.32 | 0 |
| EL298747 | | MC | 0.79 | 0.45 | 0 |
| EL298755 | | MC | 0.64 | 0.42 | 0 |
| EL298760 | | MC | 0.55 | 0.34 | 0 |
| EL298761#SCORE_TRAIT_Conv | | WP | 0.64 | 0.67 | 1 |
| EL298761#SCORE_TRAIT_Ideadev | | WP | 0.41 | 0.67 | 1 |
| VH119305 | | OR | 0.80 | 0.50 | 0 |
| VH119360 | | OR | 0.49 | 0.28 | 0 |
| VH119371 | | OR | 0.68 | 0.40 | 0 |
| VH119416 | | OR | 0.70 | 0.48 | 0 |
| VH119641#SCORE_TRAIT_Conventions | | WP | 0.68 | 0.72 | 1 |
| VH119641#SCORE_TRAIT_Expression | | WP | 0.62 | 0.72 | 1 |
| EL293286 | | MC | 0.84 | 0.26 | 0 |
| EL293288 | | MC | 0.86 | 0.44 | 0 |
| EL293291 | | MC | 0.75 | 0.33 | 0 |
| EL293293 | | MC | 0.57 | 0.41 | 0 |
| EL293295 | | MC | 0.77 | 0.45 | 0 |
| EL293296 | | MC | 0.69 | 0.28 | 0 |
| EL293299 | | MC | 0.68 | 0.41 | 0 |
| EL293300 | | MC | 0.71 | 0.45 | 0 |
| EL293306#SCORE_TRAIT_Conv | | WP | 0.62 | 0.70 | 1 |
| EL293306#SCORE_TRAIT_Ideadev | | WP | 0.41 | 0.70 | 1 |
| EL293816 | | MC | 0.73 | 0.40 | 0 |

Table G-6. 2017 Next-Generation MCAS and MCAS-Alt Technical Report: Item-Level Classical Test Theory Statistics – ELA Grade 8

| Item | | Type | Difficulty | Discrimination | Percent Omitted (%) |
|----------------------------------|--|------|------------|----------------|---------------------|
| Number | | | | | |
| EL307353 | | MC | 0.80 | 0.33 | 0 |
| EL307366 | | MC | 0.76 | 0.35 | 0 |
| EL307368 | | MC | 0.58 | 0.33 | 0 |
| EL307373 | | MC | 0.79 | 0.44 | 0 |
| EL307374 | | MC | 0.53 | 0.24 | 0 |
| EL307379 | | MC | 0.72 | 0.44 | 0 |
| EL307382 | | MC | 0.80 | 0.47 | 0 |
| EL307383 | | MC | 0.85 | 0.33 | 0 |
| EL307409#SCORE_TRAIT_Conv | | WP | 0.70 | 0.74 | 1 |
| EL307409#SCORE_TRAIT_Ideadev | | WP | 0.42 | 0.74 | 1 |
| EL307792 | | MC | 0.81 | 0.34 | 0 |
| VF557779 | | OR | 0.45 | 0.17 | 0 |
| VF557850 | | OR | 0.64 | 0.51 | 0 |
| VF557858 | | OR | 0.47 | 0.21 | 0 |
| VF557869 | | OR | 0.49 | 0.39 | 0 |
| VH007302#SCORE_TRAIT_Conventions | | WP | 0.63 | 0.71 | 1 |
| VH007302#SCORE_TRAIT_Expression | | WP | 0.51 | 0.69 | 1 |
| EL275960 | | MC | 0.79 | 0.38 | 0 |
| EL275965 | | MC | 0.84 | 0.39 | 0 |
| EL275966 | | MC | 0.85 | 0.38 | 0 |
| EL275987 | | MC | 0.88 | 0.46 | 0 |
| EL276008 | | MC | 0.81 | 0.38 | 0 |
| EL276009 | | MC | 0.71 | 0.52 | 0 |
| EL276013 | | MC | 0.90 | 0.47 | 0 |
| EL276027 | | MC | 0.66 | 0.40 | 0 |
| EL276034 | | MC | 0.91 | 0.49 | 0 |
| EL276040#SCORE_TRAIT_Conv | | WP | 0.61 | 0.74 | 1 |
| EL276040#SCORE_TRAIT_Ideadev | | WP | 0.39 | 0.73 | 1 |

Table G-8. 2017 Next-Generation MCAS and MCAS-Alt Technical Report: Item-Level Classical Test Theory Statistics – Mathematics Grade 3

| Item | | Difficulty | Discrimination | Percent Omitted (%) |
|-------------|------|------------|----------------|---------------------|
| Number | Type | | | |
| M00003 | MC | 0.81 | 0.48 | 0 |
| M00004 | OR | 0.86 | 0.32 | 1 |
| M00038 | OR | 0.52 | 0.45 | 0 |
| M00272 | OR | 0.71 | 0.44 | 0 |
| M00600 | OR | 0.43 | 0.52 | 0 |
| M00631 | OR | 0.80 | 0.42 | 0 |
| M00631P | MC | 0.78 | 0.45 | 1 |
| M01211 | MC | 0.62 | 0.51 | 1 |
| M02345 | OR | 0.59 | 0.54 | 1 |
| M03387P | MC | 0.47 | 0.52 | 0 |
| M03425 | MC | 0.77 | 0.48 | 0 |
| M05025 | OR | 0.53 | 0.60 | 1 |
| MA203641 | OR | 0.87 | 0.30 | 0 |
| MA203689 | OR | 0.70 | 0.54 | 0 |
| MA207011 | MC | 0.77 | 0.48 | 0 |
| MA283002 | MC | 0.91 | 0.33 | 0 |
| MA306301 | MC | 0.49 | 0.26 | 0 |
| MA306310 | MC | 0.54 | 0.29 | 0 |
| MA306335 | OR | 0.42 | 0.61 | 1 |
| MA306360 | OR | 0.39 | 0.59 | 1 |
| VF491797 | MC | 0.72 | 0.52 | 1 |
| VH000990 | MC | 0.73 | 0.48 | 1 |
| VH002947 | MC | 0.47 | 0.52 | 0 |
| VH009601 | OR | 0.31 | 0.48 | 0 |
| 0538-M01805 | OR | 0.30 | 0.51 | 0 |
| M01423 | OR | 0.53 | 0.56 | 0 |
| M01744 | MC | 0.78 | 0.48 | 1 |
| M01874 | MC | 0.70 | 0.42 | 0 |
| M01888 | OR | 0.57 | 0.56 | 0 |
| M03384P | MC | 0.80 | 0.33 | 0 |
| MA260962 | MC | 0.72 | 0.36 | 1 |
| MA279718 | MC | 0.54 | 0.39 | 0 |
| MA279762 | MC | 0.89 | 0.37 | 0 |
| MA293457 | MC | 0.79 | 0.50 | 1 |
| MA297405 | OR | 0.74 | 0.54 | 0 |
| MA297456 | MC | 0.67 | 0.53 | 0 |
| MA297630 | MC | 0.66 | 0.29 | 0 |
| MA300056 | OR | 0.38 | 0.49 | 0 |
| MA300745 | OR | 0.56 | 0.55 | 0 |
| MA306289 | MC | 0.36 | 0.39 | 1 |
| VF654079 | OR | 0.52 | 0.66 | 0 |
| VH000422 | MC | 0.67 | 0.42 | 0 |
| VH011886 | OR | 0.66 | 0.51 | |
| VH083831 | OR | 0.53 | 0.62 | 1 |
| VH093469 | MC | 0.82 | 0.47 | 1 |

Table G-9. 2017 Next-Generation MCAS and MCAS-Alt Technical Report: Item-Level Classical Test Theory Statistics – Mathematics Grade 4

| Item | | Difficulty | Discrimination | Percent Omitted (%) |
|-------------|------|------------|----------------|---------------------|
| Number | Type | | | |
| M00457 | OR | 0.18 | 0.55 | 1 |
| M00942 | OR | 0.82 | 0.45 | 0 |
| M01440 | MC | 0.83 | 0.39 | 0 |
| M01443 | MC | 0.80 | 0.41 | 0 |
| M01450 | MC | 0.89 | 0.34 | 0 |
| M01689 | OR | 0.69 | 0.22 | 0 |
| M01689P | MC | 0.62 | 0.16 | 0 |
| M02249 | MC | 0.58 | 0.38 | 0 |
| MA227864 | OR | 0.77 | 0.31 | 0 |
| MA258224 | OR | 0.61 | 0.63 | 0 |
| MA287237 | MC | 0.78 | 0.43 | 0 |
| MA293508 | OR | 0.46 | 0.52 | 0 |
| MA293694 | MC | 0.59 | 0.49 | 0 |
| MA297982 | MC | 0.89 | 0.38 | 0 |
| MA297990 | OR | 0.44 | 0.53 | 0 |
| VF490086 | OR | 0.46 | 0.55 | 0 |
| VF564414 | OR | 0.78 | 0.43 | 0 |
| VH058348 | MC | 0.41 | 0.30 | 0 |
| VH061785 | OR | 0.44 | 0.58 | 0 |
| VH083842 | MC | 0.78 | 0.44 | 0 |
| VH120078 | OR | 0.30 | 0.65 | 0 |
| 0421-M02077 | OR | 0.77 | 0.58 | 0 |
| M00137 | OR | 0.41 | 0.45 | 0 |
| M00625 | OR | 0.72 | 0.39 | 0 |
| M00625P | MC | 0.59 | 0.44 | 0 |
| M01104 | OR | 0.33 | 0.54 | 0 |
| M01692 | MC | 0.40 | 0.40 | 0 |
| M01792 | MC | 0.74 | 0.45 | 0 |
| M02470 | OR | 0.31 | 0.61 | 0 |
| M03055 | OR | 0.50 | 0.41 | 0 |
| M03230 | MC | 0.76 | 0.51 | 0 |
| M03240 | OR | 0.86 | 0.42 | 0 |
| M03439 | OR | 0.60 | 0.48 | 0 |
| MA218940 | MC | 0.84 | 0.33 | 0 |
| MA221974 | MC | 0.84 | 0.42 | 0 |
| MA222046 | MC | 0.47 | 0.46 | 0 |
| MA279790 | OR | 0.87 | 0.38 | 0 |
| MA301811 | MC | 0.71 | 0.34 | 0 |
| MA307055 | MC | 0.49 | 0.43 | 0 |
| MA307057 | MC | 0.63 | 0.40 | 0 |
| MA307302 | OR | 0.51 | 0.73 | 0 |
| VF497462 | MC | 0.67 | 0.61 | 0 |
| VH142457 | OR | 0.49 | 0.64 | 0 |

Table G-10. 2017 Next-Generation MCAS and MCAS-Alt Technical Report: Item-Level Classical Test Theory Statistics – Mathematics Grade 5

| Item | | Difficulty | Discrimination | Percent Omitted (%) |
|--------------|------|------------|----------------|---------------------|
| Number | Type | | | |
| 0462-M00496P | OR | 0.78 | 0.38 | 0 |
| M00219 | OR | 0.69 | 0.43 | 0 |
| M00219P | MC | 0.69 | 0.39 | 1 |
| M01007 | OR | 0.52 | 0.55 | 0 |
| M01007P | MC | 0.57 | 0.45 | 0 |
| M01120 | MC | 0.60 | 0.50 | 0 |
| M02374 | OR | 0.28 | 0.68 | 1 |
| M03080 | OR | 0.65 | 0.49 | 0 |
| M03273 | MC | 0.67 | 0.31 | 0 |
| MA272788 | MC | 0.88 | 0.28 | 0 |
| MA280507 | MC | 0.41 | 0.45 | 0 |
| MA287252 | MC | 0.61 | 0.37 | 0 |
| MA298003 | MC | 0.64 | 0.34 | 0 |
| MA301188 | OR | 0.58 | 0.65 | 0 |
| MA306463 | MC | 0.93 | 0.28 | 0 |
| MA311330 | OR | 0.62 | 0.51 | 0 |
| VF441609 | MC | 0.43 | 0.31 | 0 |
| VF497458 | MC | 0.68 | 0.42 | 0 |
| VH002441 | OR | 0.58 | 0.39 | 0 |
| VH015103 | MC | 0.52 | 0.52 | 0 |
| VH056830 | MC | 0.51 | 0.44 | 0 |
| VH076518 | MC | 0.41 | 0.44 | 0 |
| VH096246 | OR | 0.49 | 0.64 | 0 |
| 0471-M01538 | OR | 0.64 | 0.59 | 0 |
| 4094-M03412P | OR | 0.53 | 0.41 | 0 |
| M00164 | OR | 0.39 | 0.43 | 0 |
| M00164P | OR | 0.51 | 0.47 | 0 |
| M00519 | OR | 0.66 | 0.48 | 0 |
| M00519P | MC | 0.61 | 0.51 | 0 |
| M01122 | MC | 0.92 | 0.39 | 0 |
| M01532 | MC | 0.48 | 0.31 | 0 |
| M03557 | OR | 0.72 | 0.44 | 0 |
| M05153 | OR | 0.40 | 0.43 | 1 |
| MA204911 | OR | 0.77 | 0.39 | 0 |
| MA221175 | OR | 0.35 | 0.48 | 1 |
| MA221207 | OR | 0.65 | 0.48 | 0 |
| MA261210 | MC | 0.72 | 0.35 | 0 |
| MA299556 | MC | 0.75 | 0.52 | 0 |
| MA301606 | MC | 0.55 | 0.45 | 1 |
| MA306392 | MC | 0.65 | 0.42 | 0 |
| MA311329 | OR | 0.30 | 0.47 | 1 |
| MA311366 | OR | 0.39 | 0.58 | 0 |
| VF497453 | OR | 0.52 | 0.60 | 0 |
| VF886110 | MC | 0.79 | 0.36 | 0 |
| VH016414 | MC | 0.38 | 0.38 | 0 |

Table G-11. 2017 Next-Generation MCAS and MCAS-Alt Technical Report: Item-Level Classical Test Theory Statistics – Mathematics Grade 6

| Item | | Difficulty | Discrimination | Percent Omitted (%) |
|--------------|------|------------|----------------|---------------------|
| Number | Type | | | |
| 1203-M21004 | OR | 0.74 | 0.47 | 0 |
| 1203-M21004P | OR | 0.69 | 0.59 | 0 |
| 1601-M20787P | OR | 0.55 | 0.48 | 0 |
| 5073-M25459 | OR | 0.43 | 0.73 | 1 |
| M22112 | OR | 0.61 | 0.54 | 1 |
| M25339P | MC | 0.70 | 0.54 | 0 |
| MA229040 | MC | 0.94 | 0.26 | 0 |
| MA273842 | OR | 0.31 | 0.63 | 1 |
| MA282268 | MC | 0.40 | 0.43 | 0 |
| MA282277 | OR | 0.49 | 0.49 | 2 |
| MA296379 | MC | 0.80 | 0.54 | 0 |
| MA307328 | OR | 0.28 | 0.55 | 1 |
| MA307402 | MC | 0.26 | 0.36 | 0 |
| MA309941 | MC | 0.40 | 0.15 | 1 |
| VF904555 | MC | 0.75 | 0.47 | 0 |
| VF925481 | OR | 0.27 | 0.64 | 2 |
| VH016846 | MC | 0.67 | 0.38 | 0 |
| VH083072 | OR | 0.56 | 0.45 | 1 |
| VH217899 | OR | 0.59 | 0.40 | 0 |
| M20819P | OR | 0.29 | 0.38 | 0 |
| M20938 | OR | 0.42 | 0.54 | 0 |
| M21275 | MC | 0.71 | 0.51 | 0 |
| M21710 | MC | 0.27 | 0.46 | 0 |
| MA229852 | MC | 0.91 | 0.37 | 0 |
| MA251263 | MC | 0.64 | 0.21 | 0 |
| MA264305 | OR | 0.70 | 0.38 | 1 |
| MA280989 | MC | 0.50 | 0.50 | 0 |
| MA282278 | OR | 0.71 | 0.55 | 1 |
| MA290243 | MC | 0.75 | 0.42 | 0 |
| MA301220 | MC | 0.55 | 0.54 | 0 |
| MA307335 | OR | 0.68 | 0.71 | 0 |
| VF498596 | MC | 0.57 | 0.34 | 0 |
| VF643169 | OR | 0.39 | 0.65 | 0 |
| VF655921 | OR | 0.20 | 0.59 | 3 |
| VH009335 | OR | 0.73 | 0.39 | 0 |
| VH094262 | OR | 0.46 | 0.73 | 0 |
| VH094496 | OR | 0.34 | 0.79 | 1 |
| VH122469 | OR | 0.37 | 0.65 | 1 |
| VH122494 | MC | 0.75 | 0.37 | 0 |

Table G-12. 2017 Next-Generation MCAS and MCAS-Alt Technical Report: Item-Level Classical Test Theory Statistics – Mathematics Grade 7

| Item | | Difficulty | Discrimination | Percent Omitted (%) |
|--------------|------|------------|----------------|---------------------|
| Number | Type | | | |
| 1376-M21669 | OR | 0.36 | 0.58 | 0 |
| M25263 | OR | 0.31 | 0.60 | 2 |
| M25284 | OR | 0.51 | 0.39 | 0 |
| M25284P | MC | 0.45 | 0.38 | 0 |
| MA259267 | MC | 0.52 | 0.57 | 0 |
| MA259286 | OR | 0.73 | 0.40 | 0 |
| MA259293 | OR | 0.52 | 0.77 | 1 |
| MA272445 | MC | 0.60 | 0.55 | 0 |
| MA296358 | OR | 0.56 | 0.53 | 0 |
| MA301846 | MC | 0.87 | 0.37 | 0 |
| MA304467 | MC | 0.62 | 0.50 | 0 |
| MA306643 | MC | 0.53 | 0.32 | 0 |
| MA311072 | MC | 0.65 | 0.56 | 0 |
| VF801898 | OR | 0.59 | 0.50 | 0 |
| VH006088 | MC | 0.77 | 0.41 | 0 |
| VH006987 | OR | 0.19 | 0.73 | 2 |
| VH007789 | OR | 0.43 | 0.52 | 0 |
| VH054207 | OR | 0.83 | 0.38 | 1 |
| VH083771 | OR | 0.66 | 0.48 | 0 |
| 1048-M20365 | OR | 0.25 | 0.73 | 0 |
| 1548-M21656P | OR | 0.39 | 0.38 | 1 |
| M20832 | OR | 0.72 | 0.53 | 0 |
| M20856 | OR | 0.22 | 0.52 | 4 |
| M25418 | OR | 0.39 | 0.67 | 0 |
| M25530P | MC | 0.86 | 0.33 | 0 |
| MA272766 | MC | 0.51 | 0.42 | 0 |
| MA295745 | OR | 0.27 | 0.66 | 1 |
| MA295764 | MC | 0.37 | 0.39 | 1 |
| MA298180 | MC | 0.75 | 0.30 | 0 |
| MA301841 | MC | 0.71 | 0.46 | 0 |
| MA303698 | OR | 0.40 | 0.60 | 1 |
| MA303699 | OR | 0.34 | 0.65 | 1 |
| MA306538 | MC | 0.74 | 0.38 | 1 |
| MA306627 | MC | 0.50 | 0.52 | 1 |
| MA311123 | MC | 0.61 | 0.56 | 0 |
| VF658029 | OR | 0.38 | 0.64 | 0 |
| VF886877 | MC | 0.71 | 0.35 | 0 |
| VH122690 | MC | 0.69 | 0.46 | 0 |

Table G-13. 2017 Next-Generation MCAS and MCAS-Alt Technical Report: Item-Level Classical Test Theory Statistics – Mathematics Grade 8

| Item | | Difficulty | Discrimination | Percent Omitted (%) |
|-------------|------|------------|----------------|---------------------|
| Number | Type | | | |
| 1351-M21154 | OR | 0.60 | 0.48 | 0 |
| 1378-M21604 | OR | 0.37 | 0.48 | 0 |
| 1568-M22482 | OR | 0.58 | 0.57 | 0 |
| M21622 | MC | 0.86 | 0.34 | 0 |
| MA252991 | MC | 0.72 | 0.29 | 0 |
| MA297513 | MC | 0.82 | 0.46 | 0 |
| MA297517 | MC | 0.52 | 0.33 | 0 |
| MA297528 | OR | 0.43 | 0.62 | 1 |
| MA301674 | MC | 0.76 | 0.42 | 0 |
| MA301688 | MC | 0.48 | 0.35 | 0 |
| MA303351 | OR | 0.40 | 0.36 | 1 |
| MA307600 | MC | 0.58 | 0.31 | 0 |
| MA309742 | OR | 0.36 | 0.74 | 2 |
| MA311386 | OR | 0.55 | 0.50 | 0 |
| VH000131 | MC | 0.75 | 0.46 | 0 |
| VH000150 | MC | 0.75 | 0.43 | 0 |
| VH006577 | OR | 0.45 | 0.64 | 0 |
| VH049778 | OR | 0.35 | 0.67 | 2 |
| 1320-M21174 | OR | 0.65 | 0.52 | 0 |
| 1371-M21583 | OR | 0.80 | 0.48 | 0 |
| 1491-M22211 | OR | 0.54 | 0.63 | 0 |
| M21544P | MC | 0.68 | 0.51 | 0 |
| MA219670 | MC | 0.75 | 0.46 | 0 |
| MA284774 | OR | 0.46 | 0.78 | 1 |
| MA284908 | MC | 0.76 | 0.50 | 0 |
| MA297664 | OR | 0.41 | 0.64 | 0 |
| MA298049 | MC | 0.86 | 0.38 | 0 |
| MA301702 | MC | 0.49 | 0.46 | 0 |
| MA303346 | MC | 0.58 | 0.40 | 0 |
| MA307489 | OR | 0.44 | 0.54 | 0 |
| MA307596 | MC | 0.41 | 0.32 | 0 |
| MA311417 | MC | 0.28 | 0.34 | 0 |
| MA311463 | OR | 0.67 | 0.52 | 0 |
| VH013604 | MC | 0.61 | 0.48 | 0 |
| VH074629 | OR | 0.27 | 0.59 | 0 |
| VH075166 | OR | 0.14 | 0.61 | 4 |

Table G-14. 2017 Next-Generation MCAS and MCAS-Alt Technical Report: Item-Level Classical Test Theory Statistics – ELA—Alt

| Grade | Item | | Difficulty | Discrimination |
|-------|--------|------|------------|----------------|
| | Number | Type | | |
| 3 | comp1 | OR | 0.59 | 0.38 |
| | comp2 | OR | 0.59 | 0.37 |
| | comp3 | OR | 0.59 | 0.36 |
| | ind1 | OR | 0.97 | 0.38 |
| | ind2 | OR | 0.95 | 0.49 |
| | ind3 | OR | 0.87 | 0.38 |
| | sk1 | OR | 0.98 | 0.33 |
| | sk2 | OR | 0.98 | 0.37 |
| | sk3 | OR | 0.56 | 0.47 |
| 4 | comp1 | OR | 0.59 | 0.29 |
| | comp2 | OR | 0.59 | 0.32 |
| | comp3 | OR | 0.59 | 0.35 |
| | ind1 | OR | 0.97 | 0.44 |
| | ind2 | OR | 0.97 | 0.43 |
| | ind3 | OR | 0.88 | 0.42 |
| | sk1 | OR | 0.98 | 0.39 |
| | sk2 | OR | 0.98 | 0.47 |
| | sk3 | OR | 0.60 | 0.53 |
| 5 | comp1 | OR | 0.59 | 0.25 |
| | comp2 | OR | 0.59 | 0.29 |
| | comp3 | OR | 0.59 | 0.33 |
| | ind1 | OR | 0.97 | 0.36 |
| | ind2 | OR | 0.97 | 0.50 |
| | ind3 | OR | 0.90 | 0.33 |
| | sk1 | OR | 0.98 | 0.30 |
| | sk2 | OR | 0.97 | 0.34 |
| | sk3 | OR | 0.61 | 0.50 |
| 6 | comp1 | OR | 0.59 | 0.33 |
| | comp2 | OR | 0.59 | 0.37 |
| | comp3 | OR | 0.59 | 0.35 |
| | ind1 | OR | 0.96 | 0.45 |
| | ind2 | OR | 0.96 | 0.49 |
| | ind3 | OR | 0.90 | 0.48 |
| | sk1 | OR | 0.98 | 0.26 |
| | sk2 | OR | 0.98 | 0.30 |
| | sk3 | OR | 0.61 | 0.50 |
| 7 | comp1 | OR | 0.59 | 0.35 |
| | comp2 | OR | 0.59 | 0.33 |
| | comp3 | OR | 0.59 | 0.39 |
| | ind1 | OR | 0.96 | 0.44 |
| | ind2 | OR | 0.95 | 0.46 |
| | ind3 | OR | 0.90 | 0.44 |
| | sk1 | OR | 0.98 | 0.31 |
| | sk2 | OR | 0.97 | 0.31 |
| | sk3 | OR | 0.61 | 0.54 |
| 8 | comp1 | OR | 0.60 | 0.32 |
| | comp2 | OR | 0.60 | 0.33 |

continued

| Grade | Item | | Difficulty | Discrimination |
|-------|--------|------|------------|----------------|
| | Number | Type | | |
| 8 | comp3 | OR | 0.59 | 0.37 |
| | ind1 | OR | 0.96 | 0.54 |
| | ind2 | OR | 0.95 | 0.54 |
| | ind3 | OR | 0.90 | 0.46 |
| | sk1 | OR | 0.98 | 0.36 |
| | sk2 | OR | 0.97 | 0.34 |
| | sk3 | OR | 0.61 | 0.52 |
| HS | comp1 | OR | 0.59 | 0.30 |
| | comp2 | OR | 0.59 | 0.28 |
| | comp3 | OR | 0.59 | 0.38 |
| | ind1 | OR | 0.95 | 0.44 |
| | ind2 | OR | 0.95 | 0.40 |
| | ind3 | OR | 0.88 | 0.31 |
| | sk1 | OR | 0.97 | 0.33 |
| | sk2 | OR | 0.96 | 0.41 |
| | sk3 | OR | 0.59 | 0.49 |

Table G-15. 2017 Next-Generation MCAS and MCAS-Alt Technical Report: Item-Level Classical Test Theory Statistics – Mathematics—Alt

| Grade | Item | | Difficulty | Discrimination |
|-------|--------|------|------------|----------------|
| | Number | Type | | |
| 3 | comp1 | OR | 0.59 | 0.49 |
| | comp3 | OR | | |
| | comp5 | OR | 0.59 | 0.53 |
| | ind1 | OR | 0.96 | 0.68 |
| | ind3 | OR | | |
| | ind5 | OR | 0.96 | 0.71 |
| | sk1 | OR | 0.98 | 0.55 |
| | sk3 | OR | | |
| | sk5 | OR | 0.98 | 0.61 |
| 4 | comp1 | OR | 0.59 | 0.55 |
| | comp2 | OR | | |
| | comp3 | OR | 0.59 | 0.52 |
| | comp5 | OR | | |
| | ind1 | OR | 0.96 | 0.71 |
| | ind2 | OR | | |
| | ind3 | OR | 0.97 | 0.71 |
| | ind5 | OR | | |
| | sk1 | OR | 0.98 | 0.61 |
| | sk2 | OR | | |
| | sk3 | OR | 0.98 | 0.60 |
| 5 | comp2 | OR | 0.59 | 0.53 |
| | comp3 | OR | 0.59 | 0.55 |
| | comp6 | OR | | |
| | ind2 | OR | 0.97 | 0.68 |
| | ind3 | OR | 0.97 | 0.67 |

continued

| Grade | Item | | Difficulty | Discrimination |
|-------|--------|------|------------|----------------|
| | Number | Type | | |
| 5 | ind6 | OR | | |
| | sk2 | OR | 0.98 | 0.61 |
| | sk3 | OR | 0.98 | 0.62 |
| | sk6 | OR | | |
| 6 | comp1 | OR | 0.59 | 0.56 |
| | comp2 | OR | 0.59 | 0.61 |
| | comp4 | OR | | |
| | ind1 | OR | 0.96 | 0.75 |
| | ind2 | OR | 0.96 | 0.77 |
| | ind4 | OR | | |
| | sk1 | OR | 0.99 | 0.46 |
| | sk2 | OR | 0.98 | 0.43 |
| 7 | sk4 | OR | | |
| | comp1 | OR | 0.59 | 0.51 |
| | comp3 | OR | | |
| | comp4 | OR | 0.59 | 0.49 |
| | ind1 | OR | 0.96 | 0.67 |
| | ind3 | OR | | |
| | ind4 | OR | 0.97 | 0.66 |
| | sk1 | OR | 0.98 | 0.57 |
| 8 | sk3 | OR | | |
| | sk4 | OR | 0.98 | 0.60 |
| | comp2 | OR | 0.59 | 0.56 |
| | comp3 | OR | | |
| | comp4 | OR | 0.60 | 0.46 |
| | ind2 | OR | 0.96 | 0.70 |
| | ind3 | OR | | |
| | ind4 | OR | 0.96 | 0.72 |
| HS | sk2 | OR | 0.97 | 0.56 |
| | sk3 | OR | | |
| | sk4 | OR | 0.98 | 0.54 |
| | comp1 | OR | 0.60 | 0.27 |
| | comp2 | OR | 0.59 | 0.32 |
| | comp3 | OR | 0.59 | 0.28 |
| | comp4 | OR | 0.58 | 0.40 |
| | comp5 | OR | 0.58 | 0.35 |
| | ind1 | OR | 0.95 | 0.51 |
| | ind2 | OR | 0.96 | 0.46 |
| | ind3 | OR | 0.96 | 0.45 |
| | ind4 | OR | 0.96 | 0.48 |
| | ind5 | OR | 0.95 | 0.44 |
| sk1 | OR | 0.96 | 0.39 | |
| sk2 | OR | 0.96 | 0.37 | |
| sk3 | OR | 0.98 | 0.39 | |
| sk4 | OR | 0.97 | 0.33 | |
| sk5 | OR | 0.96 | 0.32 | |