

School Curriculum and Standards Authority

Table 4.14 Relationship between raw examination marks and standardised examination marks* for WACE course examinations, 2013

Note: The raw examination marks of small candidature examinations and interstate language examinations (except for Chinese: Second Language Stage 3) were not standardised and, as such, are not listed.

Course		Percentile Rank											PopIn	Mean	Std. Dev.
Standardised Mark		0%	0.2%	0.9%	2.9%	8.9%	24%	50.5%	77%	92.1%	98.1%	Top			
		0	10	20	30	40	50	60	70	80	90	100			
ACF2W	Accounting and Finance Stage 2 - Written	0.00	N/A	N/A	N/A	15.54	44.45	59.58	75.87	87.66	90.19	90.79	20	57.55	22.45
ACF3W	Accounting and Finance Stage 3 - Written	0.00	10.16	17.39	27.16	37.73	51.94	66.18	78.10	84.80	89.40	94.56	1226	63.61	16.98
HIA3W	Ancient History Stage 3 - Written	0.00	N/A	9.57	28.65	39.31	48.68	59.11	68.40	76.46	82.55	86.00	153	58.65	13.84
APS2W	Animal Production Systems Stage 2 - Written	0.00	N/A	N/A	N/A	51.56	61.37	68.94	80.63	82.69	85.40	86.76	18	70.44	11.10
APS3W	Animal Production Systems Stage 3 - Written	0.00	N/A	N/A	38.81	42.38	50.43	55.12	65.24	70.74	74.98	78.85	52	57.22	9.80
AIT2W	Applied Information Technology Stage 2 - Written	0.00	N/A	N/A	12.03	20.98	45.53	65.80	74.89	80.02	84.80	85.72	97	58.68	20.54
AIT3W	Applied Information Technology Stage 3 - Written	0.00	6.51	17.71	30.09	39.83	49.83	59.15	68.40	75.34	83.12	93.54	765	58.30	13.34
AVN3P	Aviation Stage 3 - Practical	0.00	N/A	N/A	15.18	20.37	29.64	34.39	38.80	41.29	44.21	46.00	47	33.68	7.30
AVN3W	Aviation Stage 3 - Written	0.00	N/A	N/A	8.62	19.87	30.55	42.77	50.94	56.74	63.84	66.97	48	40.74	13.35
BIO3W	Biological Sciences Stage 3 - Written	0.00	17.10	25.35	31.86	40.18	49.98	59.83	69.71	77.74	83.05	89.25	1600	59.27	13.36
BME2W	Business Management and Enterprise Stage 2 - Written	0.00	N/A	4.41	11.63	15.85	31.82	46.75	57.57	68.39	80.00	85.67	151	44.96	17.99
BME3W	Business Management and Enterprise Stage 3 - Written	0.00	N/A	8.83	24.20	41.07	55.69	68.81	79.40	86.26	90.53	95.88	694	65.78	17.01
CAE2W	Career and Enterprise Stage 2 - Written	0.00	N/A	2.73	21.89	36.97	50.16	63.92	73.80	83.61	89.35	91.58	140	61.11	17.07
CAE3W	Career and Enterprise Stage 3 - Written	0.00	N/A	17.08	33.81	41.88	51.08	56.72	65.76	74.56	80.44	93.87	148	57.43	12.20
CHE3W	Chemistry Stage 3 - Written	0.00	6.78	14.04	20.60	29.41	40.86	55.24	68.90	79.81	87.74	98.50	4851	54.64	17.83
CFC2W	Children, Family and the Community Stage 2 - Written	0.00	N/A	24.80	37.55	46.61	57.14	65.95	74.64	82.69	88.80	93.33	220	65.11	13.18
CFC3W	Children, Family and the Community Stage 3 - Written	0.00	N/A	N/A	43.17	56.01	64.14	71.66	78.60	82.10	88.91	90.82	62	70.18	10.49

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Note: The raw examination marks of small candidature examinations and interstate language examinations (except for Chinese: Second Language Stage 3) were not standardised and, as such, are not listed.

Course		Percentile Rank											Popln	Mean	Std.
Standardised Mark		0%	0.2%	0.9%	2.9%	8.9%	24%	50.5%	77%	92.1%	98.1%	Top			
		0	10	20	30	40	50	60	70	80	90	100			Dev.
CBS3W	Chinese: Background Speaker Stage 3 - Written	0.00	N/A	N/A	32.31	39.13	47.74	56.22	61.79	69.42	73.77	76.50	77	54.91	10.24
CSL3P	Chinese: Second Language Stage 3 - Practical	0.00	N/A	N/A	10.31	18.35	27.62	34.35	36.85	39.19	39.81	40.00	51	32.02	7.41
CSL3W	Chinese: Second Language Stage 3 - Written	0.00	N/A	N/A	12.38	19.48	28.85	47.72	57.22	63.02	64.87	68.46	49	44.08	15.66
CSC2W	Computer Science Stage 2 - Written	0.00	N/A	N/A	5.87	13.21	29.15	56.77	68.35	73.53	88.45	90.58	67	49.80	22.35
CSC3W	Computer Science Stage 3 - Written	0.00	N/A	8.80	17.70	35.14	46.55	58.60	71.69	83.29	90.88	95.21	340	58.33	17.67
DAN2P	Dance Stage 2 - Practical	0.00	N/A	N/A	N/A	23.94	26.87	30.13	34.40	39.60	41.83	44.20	30	30.91	5.32
DAN2W	Dance Stage 2 - Written	0.00	N/A	N/A	N/A	15.28	21.50	28.64	35.06	40.24	45.83	46.42	31	28.82	9.03
DAN3P	Dance Stage 3 - Practical	0.00	N/A	15.91	17.28	22.51	27.17	32.43	38.05	43.14	47.26	50.00	307	32.35	7.34
DAN3W	Dance Stage 3 - Written	0.00	N/A	8.49	16.51	21.21	25.14	29.29	34.06	38.05	41.78	47.42	317	29.14	6.49
DES2P	Design Stage 2 - Practical	0.00	N/A	N/A	12.35	17.19	19.65	22.99	28.00	32.04	33.78	37.00	87	24.16	5.54
DES2W	Design Stage 2 - Written	0.00	N/A	N/A	14.97	17.56	24.18	30.23	34.44	39.31	42.43	45.23	86	29.13	7.84
DES3P	Design Stage 3 - Practical	0.00	N/A	8.32	12.76	16.22	21.15	25.86	30.74	34.79	38.19	41.00	476	26.12	6.66
DES3W	Design Stage 3 - Written	0.00	N/A	8.36	13.73	20.47	26.13	31.38	36.72	41.86	45.21	49.44	472	31.07	7.92
DRA2P	Drama Stage 2 - Practical	0.00	N/A	N/A	N/A	44.70	50.94	60.82	76.79	82.80	87.65	91.50	27	63.46	14.13
DRA2W	Drama Stage 2 - Written	0.00	N/A	N/A	N/A	17.36	40.48	65.72	81.33	85.85	90.52	93.00	29	61.81	23.29
DRA3P	Drama Stage 3 - Practical	0.00	20.55	31.69	38.57	46.34	53.48	63.34	73.09	83.04	91.32	100.00	881	63.65	13.35
DRA3W	Drama Stage 3 - Written	0.00	6.28	17.50	27.30	35.39	43.21	52.33	61.53	70.97	78.32	90.50	889	52.54	13.10
EES2W	Earth and Environmental Science Stage 2 - Written	0.00	N/A	N/A	N/A	8.16	23.80	32.06	51.67	65.19	72.96	75.68	14	38.98	19.28

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Course		Percentile Rank											Popln	Mean	Std.	
Standardised Mark		0%	0.2%	0.9%	2.9%	8.9%	24%	50.5%	77%	92.1%	98.1%	Top				Dev.
		0	10	20	30	40	50	60	70	80	90	100				
EES3W	Earth and Environmental Science Stage 3 - Written	0.00	N/A	22.07	32.00	41.96	51.77	61.25	72.81	79.38	84.79	96.33		243	61.08	13.94
ECO2W	Economics Stage 2 - Written	0.00	N/A	N/A	N/A	24.57	27.70	34.37	48.10	53.94	66.89	71.00		12	40.54	13.53
ECO3W	Economics Stage 3 - Written	0.00	6.75	16.13	21.85	30.79	41.87	54.63	67.36	77.48	84.81	96.00		2006	54.34	16.59
EST2W	Engineering Studies Stage 2 - Written**	0.00	N/A	N/A	N/A	22.45	37.13	53.84	68.65	73.27	81.26	84.58		16	53.63	18.12
EST3W	Engineering Studies Stage 3 - Written**	0.00	N/A	22.41	27.98	37.57	47.55	57.02	67.61	79.44	93.15	100.00		252	57.37	15.35
ELD2P	English as an Additional Language or Dialect Stage 2 - Practical	0.00	N/A	7.39	8.63	10.80	13.14	15.91	18.30	20.44	22.60	23.56		251	15.69	3.43
ELD2W	English as an Additional Language or Dialect Stage 2 - Written	0.00	N/A	11.14	16.58	23.38	33.95	43.47	51.88	59.51	63.40	68.00		253	42.45	12.42
ELD3P	English as an Additional Language or Dialect Stage 3 - Practical	0.00	6.38	7.84	9.66	11.30	13.14	15.74	18.43	20.83	22.72	24.57		991	15.85	3.44
ELD3W	English as an Additional Language or Dialect Stage 3 - Written	0.00	15.15	22.56	28.13	33.04	40.27	46.73	52.72	57.92	62.21	68.00		1027	46.25	8.84
ENG2W	English Stage 2 - Written	0.00	N/A	7.94	19.07	33.85	44.08	52.71	60.93	67.97	74.29	84.00		1872	51.62	13.28
ENG3W	English Stage 3 - Written	0.00	9.00	23.27	31.53	38.10	44.73	51.78	59.49	67.41	74.39	86.50		9537	52.09	10.83
FST2W	Food Science and Technology Stage 2 - Written**	0.00	N/A	9.21	26.05	33.04	44.04	54.73	62.56	70.16	75.29	84.74		182	52.61	13.29
FST3W	Food Science and Technology Stage 3 - Written	0.00	N/A	N/A	21.84	35.52	46.98	53.11	60.57	67.01	71.49	76.08		78	52.07	11.58
FRE3P	French Stage 3 - Practical	0.00	N/A	6.89	10.22	12.83	16.85	21.27	24.62	27.49	29.60	30.00		419	20.88	5.12
FRE3W	French Stage 3 - Written	0.00	N/A	14.71	19.49	24.39	31.17	38.03	45.75	51.87	58.40	62.98		418	38.28	9.96
GEO2W	Geography Stage 2 - Written	0.00	N/A	N/A	N/A	30.74	45.66	58.76	74.78	83.44	88.44	89.50		28	59.98	17.84
GEO3W	Geography Stage 3 - Written	0.00	16.98	25.49	33.85	41.76	49.89	58.39	66.88	73.53	80.17	92.00		1998	58.09	11.77

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Course															
Percentile Rank		0%	0.2%	0.9%	2.9%	8.9%	24%	50.5%	77%	92.1%	98.1%	Top	Popln	Mean	Std.
Standardised Mark		0	10	20	30	40	50	60	70	80	90	100			Dev.
GER3P	German Stage 3 - Practical	0.00	N/A	N/A	9.02	11.72	14.66	19.41	21.85	24.33	24.89	25.00	70	18.44	4.24
GER3W	German Stage 3 - Written	0.00	N/A	N/A	24.97	29.66	37.48	50.65	59.52	65.84	68.46	72.29	70	48.40	12.56
HEA2W	Health Studies Stage 2 - Written	0.00	N/A	N/A	29.83	44.28	55.69	63.41	73.77	82.51	88.20	89.00	63	64.32	13.10
HEA3W	Health Studies Stage 3 - Written	0.00	N/A	16.90	28.25	39.70	48.21	59.90	69.44	78.80	83.79	95.50	276	58.74	14.55
HBS2W	Human Biological Science Stage 2 - Written	0.00	N/A	N/A	26.35	35.76	48.09	56.76	65.49	73.96	80.73	84.00	107	55.81	13.50
HBS3W	Human Biological Science Stage 3 - Written	0.00	11.22	17.19	23.85	30.81	40.67	52.39	63.46	72.75	79.69	90.50	3950	51.92	14.82
IND3P	Indonesian: Second Language Stage 3 - Practical	0.00	N/A	N/A	11.41	14.46	19.31	25.97	33.18	36.61	38.71	40.00	83	26.45	7.85
IND3W	Indonesian: Second Language Stage 3 - Written	0.00	N/A	N/A	14.65	18.36	25.02	33.43	42.06	48.47	52.35	53.63	84	33.64	10.51
ISC2W	Integrated Science Stage 2 - Written	0.00	N/A	N/A	20.28	34.60	51.79	59.78	64.59	69.26	70.60	71.00	42	56.89	11.52
ISC3W	Integrated Science Stage 3 - Written	0.00	N/A	N/A	35.96	44.61	52.27	57.87	64.35	69.89	74.89	84.48	98	58.12	9.55
ITA3P	Italian Stage 3 - Practical	0.00	N/A	6.10	7.37	10.25	13.45	18.35	23.15	26.28	29.30	30.00	250	18.39	5.82
ITA3W	Italian Stage 3 - Written	0.00	N/A	10.97	19.65	24.17	31.33	40.30	49.17	56.30	59.91	62.39	251	39.83	11.28
JSL2W	Japanese: Second Language Stage 2 - Written	0.00	N/A	N/A	N/A	N/A	25.65	42.92	47.56	65.49	71.95	74.00	10	41.47	17.90
JSL3P	Japanese: Second Language Stage 3 - Practical	0.00	N/A	2.65	4.30	5.82	9.09	12.33	15.65	18.44	19.46	20.00	256	12.69	4.22
JSL3W	Japanese: Second Language Stage 3 - Written	0.00	N/A	13.83	15.59	20.71	29.33	39.98	54.69	63.59	69.61	72.28	255	41.49	15.03
LIT2W	Literature Stage 2 - Written	0.00	N/A	N/A	N/A	53.71	56.38	62.48	72.96	83.35	87.91	88.75	16	66.33	10.44
LIT3W	Literature Stage 3 - Written	0.00	17.36	34.59	43.00	50.02	56.29	63.51	71.03	78.39	84.39	94.40	1690	63.33	10.61
MMS3W	Marine and Maritime Studies Stage 3 - Written	0.00	N/A	N/A	35.23	47.37	58.70	67.00	75.05	80.95	87.66	87.71	62	66.50	11.77

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Course																
Percentile Rank		0%	0.2%	0.9%	2.9%	8.9%	24%	50.5%	77%	92.1%	98.1%	Top		Popln	Mean	Std.
Standardised Mark		0	10	20	30	40	50	60	70	80	90	100				Dev.
MDT2P	Materials Design and Technology Stage 2 - Practical	0.00	N/A	N/A	5.48	7.16	10.23	16.28	21.17	23.79	26.40	28.00		84	16.21	5.95
MDT2W	Materials Design and Technology Stage 2 - Written**	0.00	N/A	N/A	8.09	16.39	21.34	27.82	32.15	34.89	37.02	39.79		84	26.67	7.08
MDT3P	Materials Design and Technology Stage 3 - Practical	0.00	N/A	3.93	6.30	9.61	17.21	22.55	26.25	29.16	30.77	33.00		214	21.49	6.67
MDT3W	Materials Design and Technology Stage 3 - Written**	0.00	N/A	8.43	12.46	16.77	20.22	25.47	29.14	32.30	36.51	44.53		208	24.93	5.88
MAT2AB W	Mathematics Stage 2AB - Written	0.00	N/A	22.39	28.72	38.88	53.64	72.20	92.57	109.29	120.84	135.00		385	73.16	25.05
MAT2CD W	Mathematics Stage 2CD - Written	0.00	16.12	27.22	39.12	52.03	69.01	86.03	102.40	115.60	126.51	139.00		3940	84.76	22.60
MAT3AB W	Mathematics Stage 3AB - Written	0.00	15.07	23.39	35.22	48.12	64.76	83.59	100.87	115.32	127.13	141.00		4656	82.36	23.94
MAT3CD W	Mathematics Stage 3CD - Written	0.00	10.87	26.34	38.18	57.24	78.13	98.77	117.83	131.42	140.04	149.00		3879	96.26	26.64
MAS3AB W	Mathematics: Specialist Stage 3AB - Written	0.00	N/A	N/A	31.52	39.97	71.10	92.35	114.95	126.82	131.34	134.00		35	91.50	26.93
MAS3CD W	Mathematics: Specialist Stage 3CD - Written	0.00	9.94	19.51	32.86	46.33	65.57	84.19	102.45	118.65	135.57	148.50		1520	83.11	25.62
MPA2P	Media Production and Analysis Stage 2 - Practical	0.00	N/A	N/A	5.02	16.26	20.16	23.47	26.35	28.96	31.02	33.00		52	23.27	5.36
MPA2W	Media Production and Analysis Stage 2 - Written	0.00	N/A	N/A	7.46	23.62	27.44	31.38	36.75	39.28	40.97	43.44		47	31.20	7.23
MPA3P	Media Production and Analysis Stage 3 - Practical	0.00	3.80	10.02	12.74	16.86	20.00	23.94	27.71	31.43	33.89	38.00		902	24.13	5.32
MPA3W	Media Production and Analysis Stage 3 - Written	0.00	3.94	8.77	15.09	19.83	24.57	28.84	33.33	37.40	41.00	47.50		879	28.53	6.50
HIM2W	Modern History Stage 2 - Written	0.00	N/A	N/A	N/A	9.58	17.06	32.29	38.45	54.08	60.38	62.00		17	32.35	14.66

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		0	10	20	30	40	50	60	70	80	90	100				
HIM3W	Modern History Stage 3 - Written	0.00	11.00	18.78	28.33	39.23	47.70	56.74	65.83	74.31	81.59	91.00		2506	56.35	13.13
MUS2W	Music Stage 2 - Written	0.00	N/A	N/A	N/A	N/A	3.61	7.42	29.50	36.84	38.40	38.90		11	16.84	14.13
MUS3P	Music Stage 3 - Practical	0.00	N/A	8.97	13.81	20.19	25.36	31.30	38.70	43.64	47.80	50.00		387	31.54	8.75
MUS3W	Music Stage 3 - Written	0.00	N/A	5.29	9.36	13.13	17.99	24.43	31.86	38.14	43.21	48.03		395	24.81	8.91
OED2W	Outdoor Education Stage 2 - Written	0.00	N/A	N/A	N/A	24.75	33.47	61.44	70.88	73.90	77.50	81.95		31	54.70	18.93
OED3W	Outdoor Education Stage 3 - Written	0.00	N/A	21.86	30.40	37.16	45.68	56.68	65.01	73.34	78.89	85.77		302	55.27	12.79
PAE3W	Philosophy and Ethics Stage 3 - Written	0.00	N/A	9.95	25.34	43.39	52.36	62.08	72.48	80.49	89.88	93.50		166	61.54	14.98
PES2W	Physical Education Studies Stage 2 - Written	0.00	N/A	13.08	20.06	22.80	29.30	36.80	43.32	47.77	50.63	54.25		114	36.14	8.49
PES3W	Physical Education Studies Stage 3 - Written	0.00	13.50	18.42	25.96	33.02	39.62	46.20	51.55	56.28	59.73	64.28		1998	45.06	8.63
PHY2W	Physics Stage 2 - Written	0.00	N/A	N/A	N/A	39.93	52.05	70.03	78.31	87.06	88.85	90.04		27	67.60	15.79
PHY3W	Physics Stage 3 - Written	0.00	7.94	15.80	23.52	34.82	48.07	61.90	73.34	80.66	86.64	97.50		3656	59.68	16.64
PPS2W	Plant Production Systems Stage 2 - Written	0.00	N/A	N/A	N/A	55.40	66.99	72.28	79.26	82.85	83.38	83.42		18	71.78	8.89
PPS3W	Plant Production Systems Stage 3 - Written	0.00	N/A	N/A	33.01	45.40	51.50	60.85	72.13	78.01	79.43	79.79		39	61.35	11.80
PAL2W	Politics and Law Stage 2 - Written	0.00	N/A	N/A	N/A	N/A	51.78	59.83	74.47	82.31	88.91	91.00		11	64.09	14.21
PAL3W	Politics and Law Stage 3 - Written	0.00	2.89	6.46	13.59	25.44	39.32	53.56	64.90	74.30	81.38	90.50		881	51.48	17.31
PSY2W	Psychology Stage 2 - Written	0.00	N/A	13.17	27.28	34.53	43.52	53.03	64.51	78.01	79.46	85.00		113	53.85	14.51
PSY3W	Psychology Stage 3 - Written	0.00	10.59	20.17	25.76	32.75	43.22	54.96	64.86	72.87	80.36	86.38		944	53.61	14.39
REL2W	Religion and Life Stage 2 - Written	0.00	N/A	3.92	20.11	41.03	49.06	56.26	64.11	69.61	74.94	82.84		150	55.57	12.40
REL3W	Religion and Life Stage 3 - Written	0.00	13.78	30.26	35.39	43.13	50.67	58.59	66.58	74.61	81.86	92.16		1752	58.45	11.60

* The raw marks which are standardised to 10, 20, 30, 40, 50, 60, 70, 80, 90 are those of students whose mark is equal to 0.2, 0.9, 2.9, 8.9, 24, 50.5, 77, 92.1 and 98.1 per cent respectively of other students sitting the examinations. A raw mark of 0 becomes a standardised mark of 0, and the highest raw mark is standardised to 100. Having determined these standardisation points other raw examination marks may be transformed to standardised marks by linear interpolation.

** Entries for these examinations are not raw marks but adjusted raw marks. The adjustment is necessary to take account of the different contexts within those examinations.

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Table 4.14 Relationship between raw examination marks and standardised examination marks* for WACE course examinations, 2013

Note: The raw examination marks of small candidature examinations and interstate language examinations (except for Chinese: Second Language Stage 3) were not standardised and, as such, are not listed.

Course																
Percentile Rank		0%	0.2%	0.9%	2.9%	8.9%	24%	50.5%	77%	92.1%	98.1%	Top		Popln	Mean	Std.
Standardised Mark		0	10	20	30	40	50	60	70	80	90	100				Dev.
VAR2P	Visual Arts Stage 2 - Practical	0.00	N/A	N/A	10.07	12.29	18.18	24.56	29.50	34.04	35.89	38.00		37	24.05	7.06
VAR2W	Visual Arts Stage 2 - Written	0.00	N/A	N/A	N/A	15.18	19.42	29.91	40.16	42.87	43.94	45.00		32	29.79	10.16
VAR3P	Visual Arts Stage 3 - Practical	0.00	N/A	8.20	9.98	13.16	16.88	20.39	24.75	28.97	32.16	34.00		1063	21.01	5.54
VAR3W	Visual Arts Stage 3 - Written	0.00	5.71	9.58	13.19	18.81	23.25	28.45	33.47	37.88	41.86	47.40		1038	28.10	7.06

* The raw marks which are standardised to 10, 20, 30, 40, 50, 60, 70, 80, 90 are those of students whose mark is equal to 0.2, 0.9, 2.9, 8.9, 24, 50.5, 77, 92.1 and 98.1 per cent respectively of other students sitting the examinations. A raw mark of 0 becomes a standardised mark of 0, and the highest raw mark is standardised to 100. Having determined these standardisation points other raw examination marks may be transformed to standardised marks by linear interpolation.

** Entries for these examinations are not raw marks but adjusted raw marks. The adjustment is necessary to take account of the different contexts within those examinations.