

Correlation Between Language Arts Indices and Mathematics Indices

The following correlations represent the Manitoba birth cohort (years 1979-1989, excluding 1982 and 1983).

1. For those with non-imputed (non-missing) scores (1979-1981, and 1984-1989)

The CORR Procedure

Simple Statistics

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
LA_INDEX	64102	0.61701	0.69886	39552	-0.36836	3.37293
MATH_INDEX	64102	0.64288	0.67797	41210	-0.22757	3.40814

Pearson Correlation Coefficients, N = 64102

Prob > |r| under H0: Rho=0

	LA_INDEX	MATH_INDEX
LA_INDEX	1.00000	0.36432 <.0001
MATH_INDEX	0.36432 <.0001	1.00000

2. For those with non-imputed (non-missing) scores - Birth Year = 1979

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
LA_INDEX	5708	0.69906	0.67737	3990	-0.16843	2.90936
MATH_INDEX	5708	0.68618	0.67243	3917	-0.12551	2.58706

Pearson Correlation Coefficients, N = 5708

Prob > |r| under H0: Rho=0

	LA_INDEX	MATH_INDEX
LA_INDEX	1.00000	0.24446 <.0001
MATH_INDEX	0.24446 <.0001	1.00000

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3. For those with non-imputed (non-missing) scores - Birth Year = 1980

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
LA_INDEX	6371	0.63486	0.68270	4045	-0.25159	2.93102
MATH_INDEX	6371	0.65180	0.67036	4153	-0.18881	2.64651

Pearson Correlation Coefficients, N = 6371
 Prob > |r| under H0: Rho=0

	LA_INDEX	MATH_INDEX
LA_INDEX	1.00000	0.20131 <.0001
MATH_INDEX	0.20131 <.0001	1.00000

4. For those with non-imputed (non-missing) scores - Birth Year = 1981

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
LA_INDEX	6714	0.62871	0.68227	4221	-0.24360	2.96546
MATH_INDEX	6714	0.63820	0.67208	4285	-0.21691	2.51069

Pearson Correlation Coefficients, N = 6714
 Prob > |r| under H0: Rho=0

	LA_INDEX	MATH_INDEX
LA_INDEX	1.00000	0.16270 <.0001
MATH_INDEX	0.16270 <.0001	1.00000

5. For those with non-imputed (non-missing) scores - Birth Year = 1984

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
LA_INDEX	7137	0.63232	0.69871	4513	-0.29704	3.04244
MATH_INDEX	7137	0.66571	0.67672	4751	-0.14394	3.40814

Pearson Correlation Coefficients, N = 7137
 Prob > |r| under H0: Rho=0

	LA_INDEX	MATH_INDEX
LA_INDEX	1.00000	0.42246 <.0001
MATH_INDEX	0.42246 <.0001	1.00000

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6. For those with non-imputed (non-missing) scores - Birth Year = 1985

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
LA_INDEX	7409	0.61113	0.70080	4528	-0.32572	3.04208
MATH_INDEX	7409	0.65113	0.67760	4824	-0.16050	3.10360

Pearson Correlation Coefficients, N = 7409

Prob > |r| under H0: Rho=0

	LA_INDEX	MATH_INDEX
LA_INDEX	1.00000	0.41186 <.0001
MATH_INDEX	0.41186 <.0001	1.00000

7. For those with non-imputed (non-missing) scores - Birth Year = 1986

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
LA_INDEX	7852	0.57576	0.71103	4521	-0.36836	3.16995
MATH_INDEX	7852	0.60491	0.68636	4750	-0.22757	3.05412

Pearson Correlation Coefficients, N = 7852

Prob > |r| under H0: Rho=0

	LA_INDEX	MATH_INDEX
LA_INDEX	1.00000	0.41949 <.0001
MATH_INDEX	0.41949 <.0001	1.00000

8. For those with non-imputed (non-missing) scores - Birth Year = 1987

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
LA_INDEX	7499	0.60016	0.70959	4501	-0.34043	3.36169
MATH_INDEX	7499	0.63980	0.67969	4798	-0.17424	2.87227

Pearson Correlation Coefficients, N = 7499

Prob > |r| under H0: Rho=0

	LA_INDEX	MATH_INDEX
LA_INDEX	1.00000	0.42846 <.0001
MATH_INDEX	0.42846 <.0001	1.00000

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9. For those with non-imputed (non-missing) scores - Birth Year = 1988

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
LA_INDEX	7687	0.58606	0.70684	4505	-0.35881	3.20202
MATH_INDEX	7687	0.62272	0.68176	4787	-0.20416	2.86623

Pearson Correlation Coefficients, N = 7687

Prob > |r| under H0: Rho=0

	LA_INDEX	MATH_INDEX
LA_INDEX	1.00000	0.45649 <.0001
MATH_INDEX	0.45649 <.0001	1.00000

10. For those with non-imputed (non-missing) scores - Birth Year = 1989

Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
LA_INDEX	7725	0.61207	0.70343	4728	-0.31542	3.37293
MATH_INDEX	7725	0.64024	0.67829	4946	-0.18356	2.76853

Pearson Correlation Coefficients, N = 7725

Prob > |r| under H0: Rho=0

	LA_INDEX	MATH_INDEX
LA_INDEX	1.00000	0.42857 <.0001
MATH_INDEX	0.42857 <.0001	1.00000

Source: Manitoba Centre for Health Policy, 2012