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**Title page:**

**Left-handedness is associated with more semantic activity in certain cortical regions  
in the right hemisphere — Supplementary Tables.**

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**Supplementary Table 1.** The mean and standard deviation of the  
PEs number in every MMP region.

MMP region	STORY		STORY-MATH	
	Mean	STD	Mean	STD
R_V1_ROI	163.93	86.60	109.68	70.10
R_MST_ROI	16.75	11.09	23.10	10.98
R_V6_ROI	13.58	12.01	20.93	15.73
R_V2_ROI	107.88	58.26	102.85	55.93
R_V3_ROI	65.90	33.98	79.88	36.66
R_V4_ROI	63.68	32.60	82.18	39.24
R_V8_ROI	10.98	9.46	17.00	10.05
R_4_ROI	133.10	72.36	209.00	90.07
R_3b_ROI	74.13	46.77	155.50	71.29
R_FEF_ROI	33.03	21.45	16.83	14.28
R_PEF_ROI	15.98	9.92	7.38	8.83
R_55b_ROI	30.15	15.60	18.23	12.97
R_V3A_ROI	23.23	20.53	35.25	22.39
R_RSC_ROI	17.13	14.11	28.65	18.06
R_POS2_ROI	10.80	17.46	17.63	17.28
R_V7_ROI	7.10	6.99	12.85	7.55
R_IPS1_ROI	17.23	15.77	15.75	13.24
R_FFC_ROI	29.80	18.00	45.43	24.29
R_V3B_ROI	14.80	12.10	18.53	11.87
R_LO1_ROI	8.30	5.84	14.33	7.34
R_LO2_ROI	7.60	4.55	10.95	5.30
R_PIT_ROI	11.68	9.42	17.50	10.41
R_MT_ROI	7.98	5.95	13.88	6.33
R_A1_ROI	27.98	7.20	23.03	9.06
R_PSL_ROI	25.10	18.38	21.75	16.36
R_SFL_ROI	25.50	15.28	27.08	12.45
R_PCV_ROI	24.75	18.96	25.83	19.10
R_STV_ROI	29.05	20.78	29.45	21.17
R_7Pm_ROI	12.70	11.86	5.43	8.41
R_7m_ROI	23.25	16.17	47.83	13.78
R_POS1_ROI	23.83	18.77	38.33	25.04

R_23d_ROI	9.90	9.03	16.73	11.30
R_v23ab_ROI	6.98	7.76	30.63	11.71
R_d23ab_ROI	4.38	5.02	10.43	6.03
R_31pv_ROI	8.23	7.82	35.85	14.26
R_5m_ROI	20.55	17.77	43.50	24.51
R_5mv_ROI	29.75	22.20	49.58	27.15
R_23c_ROI	31.20	27.73	39.15	26.30
R_5L_ROI	22.35	20.62	54.05	25.89
R_24dd_ROI	47.80	25.31	71.88	27.62
R_24dv_ROI	28.90	20.29	41.10	22.29
R_7AL_ROI	19.43	20.77	49.60	22.07
R_SCEF_ROI	42.90	22.91	12.85	10.70
R_6ma_ROI	22.40	17.69	17.20	13.24
R_7Am_ROI	30.68	23.90	29.53	19.64
R_7PL_ROI	15.73	13.31	5.55	7.49
R_7PC_ROI	30.63	25.58	39.00	21.48
R_LIPv_ROI	27.58	20.47	18.78	17.30
R_VIP_ROI	19.38	14.19	21.18	14.99
R_MIP_ROI	32.95	22.05	12.88	14.37
R_1_ROI	48.33	34.48	113.55	48.58
R_2_ROI	99.60	75.71	151.93	66.89
R_3a_ROI	55.08	30.18	84.75	41.07
R_6d_ROI	33.48	22.01	39.25	22.78
R_6mp_ROI	40.85	31.10	67.68	36.04
R_6v_ROI	20.15	13.77	20.08	11.52
R_p24pr_ROI	14.23	10.40	18.53	10.48
R_33pr_ROI	12.78	8.95	7.83	6.80
R_a24pr_ROI	5.95	5.52	6.60	5.96
R_p32pr_ROI	22.75	16.02	8.80	11.93
R_a24_ROI	8.45	6.80	19.90	7.60
R_d32_ROI	8.80	9.60	13.05	11.67
R_8BM_ROI	25.93	14.77	16.18	12.32
R_p32_ROI	7.30	6.61	20.20	11.88
R_10r_ROI	9.38	5.56	27.83	6.20
R_47m_ROI	10.23	7.63	22.30	8.23
R_8Av_ROI	23.83	16.36	40.68	26.70
R_8Ad_ROI	22.05	16.76	47.83	25.92
R_9m_ROI	37.40	20.13	83.50	28.08
R_8BL_ROI	27.03	17.32	59.90	22.55

R_9p_ROI	8.78	7.55	22.75	14.67
R_10d_ROI	8.28	6.98	29.13	13.00
R_8C_ROI	40.03	26.43	39.60	29.70
R_44_ROI	24.55	18.62	23.70	17.70
R_45_ROI	32.23	17.24	48.83	14.22
R_47l_ROI	25.15	14.00	38.98	14.91
R_a47r_ROI	12.60	10.90	22.83	14.99
R_6r_ROI	31.65	19.35	13.38	8.48
R_IFJa_ROI	18.53	11.80	12.55	11.39
R_IFJp_ROI	12.20	9.44	3.23	4.87
R_IFSp_ROI	29.45	15.90	31.78	16.08
R_IFSa_ROI	15.30	13.90	22.45	15.05
R_p9-46v_ROI	17.95	16.30	10.03	13.66
R_46_ROI	17.60	16.71	14.08	14.08
R_a9-46v_ROI	6.30	6.69	4.93	5.92
R_9-46d_ROI	15.60	14.52	18.63	16.30
R_9a_ROI	12.83	10.35	36.38	16.85
R_10v_ROI	17.28	8.64	37.78	7.33
R_a10p_ROI	4.75	5.46	9.65	8.87
R_10pp_ROI	14.48	7.28	20.10	10.47
R_11l_ROI	17.28	12.17	15.65	10.16
R_13l_ROI	13.90	9.64	20.65	10.12
R_OFC_ROI	64.45	17.43	76.40	13.66
R_47s_ROI	26.13	14.49	36.95	14.05
R_LIPd_ROI	11.03	10.86	0.90	2.12
R_6a_ROI	61.45	37.99	30.03	28.09
R_i6-8_ROI	11.48	12.38	6.13	7.68
R_s6-8_ROI	8.65	10.45	10.10	11.24
R_43_ROI	18.75	11.66	37.28	17.58
R_OP4_ROI	41.70	26.52	67.95	24.44
R_OP1_ROI	20.05	13.23	30.28	11.49
R_OP2-3_ROI	16.65	11.21	33.80	12.31
R_52_ROI	11.55	8.18	12.20	9.64
R_RI_ROI	66.43	29.99	61.43	25.23
R_PFcM_ROI	29.75	23.21	51.18	24.05
R_PoI2_ROI	22.13	15.44	41.98	17.37
R_TA2_ROI	32.43	12.56	29.55	12.44
R_FOP4_ROI	28.30	17.55	6.00	7.62
R_MI_ROI	11.35	12.47	8.43	9.26

R_Pir_ROI	45.38	22.70	63.95	19.93
R_AVI_ROI	24.05	13.62	5.88	7.49
R_AAIC_ROI	6.05	5.05	9.43	7.03
R_FOP1_ROI	9.83	7.80	9.33	6.88
R_FOP3_ROI	10.33	9.61	15.60	12.15
R_FOP2_ROI	12.20	8.31	22.05	11.59
R_PFt_ROI	31.53	23.81	38.25	27.16
R_AIP_ROI	66.73	46.50	26.30	27.25
R_EC_ROI	15.38	6.32	21.05	9.33
R_PreS_ROI	27.85	14.95	34.68	17.63
R_H_ROI	37.45	20.91	58.60	21.47
R_ProS_ROI	22.90	14.36	26.25	18.24
R_PeEc_ROI	56.55	19.94	93.53	25.73
R_STGa_ROI	17.88	6.37	20.60	4.77
R_PBelt_ROI	41.05	9.94	33.48	11.46
R_A5_ROI	86.30	16.86	72.95	20.05
R_PHA1_ROI	20.95	11.48	30.80	12.22
R_PHA3_ROI	16.30	11.93	24.53	11.88
R_STSda_ROI	60.58	26.34	86.63	12.16
R_STSdp_ROI	76.50	28.49	75.68	27.01
R_STSvp_ROI	33.90	20.13	39.85	20.92
R_TGd_ROI	99.03	37.15	160.78	31.13
R_TE1a_ROI	19.08	10.49	37.03	9.57
R_TE1p_ROI	30.03	20.05	18.13	18.56
R_TE2a_ROI	43.73	18.18	61.60	26.48
R_TF_ROI	71.58	23.54	89.60	27.83
R_TE2p_ROI	28.23	16.13	35.70	20.31
R_PHT_ROI	17.80	14.77	23.25	14.73
R_PH_ROI	33.78	22.19	37.70	20.71
R_TPOJ1_ROI	82.23	42.14	73.40	35.91
R_TPOJ2_ROI	27.95	16.85	39.73	18.06
R_TPOJ3_ROI	21.40	12.64	29.93	13.13
R_DVT_ROI	12.95	10.73	22.10	14.18
R_PGp_ROI	20.83	16.45	35.63	17.89
R_IP2_ROI	16.65	20.86	0.38	1.03
R_IP1_ROI	16.65	18.18	4.93	8.46
R_IP0_ROI	13.23	12.40	9.00	8.57
R_PFop_ROI	18.13	16.28	31.18	17.92
R_PF_ROI	29.33	32.48	63.10	35.78

R_PFm_ROI	25.83	24.76	24.85	24.11
R_PGi_ROI	74.55	43.39	122.18	38.82
R_PGs_ROI	16.98	17.98	29.58	21.24
R_V6A_ROI	6.35	5.92	13.68	7.10
R_VMV1_ROI	21.03	14.54	22.60	14.45
R_VMV3_ROI	12.33	8.33	16.50	9.88
R_PHA2_ROI	12.03	8.44	17.98	8.47
R_V4t_ROI	9.95	6.46	16.10	6.21
R_FST_ROI	16.13	11.91	26.40	10.71
R_V3CD_ROI	14.55	12.77	27.55	11.98
R_LO3_ROI	8.50	7.39	21.38	9.86
R_VMV2_ROI	15.33	12.41	22.55	12.99
R_31pd_ROI	11.50	9.79	28.43	12.36
R_31a_ROI	6.75	8.77	8.63	9.15
R_VVC_ROI	22.18	13.72	34.80	16.97
R_25_ROI	16.38	5.89	20.73	6.45
R_s32_ROI	11.30	7.23	19.90	6.44
R_pOFC_ROI	18.40	11.33	25.83	13.10
R_Pol1_ROI	19.95	13.64	38.55	18.83
R_Ig_ROI	22.20	10.61	37.93	14.22
R_FOP5_ROI	28.25	15.93	17.18	12.91
R_p10p_ROI	10.48	8.99	22.73	14.94
R_p47r_ROI	8.68	8.88	11.93	10.79
R_TGv_ROI	29.13	12.01	40.95	11.78
R_MBelt_ROI	28.95	7.93	23.18	10.06
R_LBelt_ROI	37.08	8.48	24.75	12.08
R_A4_ROI	69.45	17.83	54.78	15.92
R_STSva_ROI	21.78	11.35	34.33	7.38
R_TE1m_ROI	11.78	8.18	9.93	7.09
R_PI_ROI	26.53	12.58	28.80	12.31
R_a32pr_ROI	12.48	13.04	5.28	10.51
R_p24_ROI	5.13	6.10	8.90	8.09
All right MMP	4915.03	1684.86	6240.58	1580.97
L_V1_ROI	161.83	92.63	111.43	74.91
L_MST_ROI	12.45	11.76	23.95	10.09
L_V6_ROI	11.05	13.55	17.40	15.07
L_V2_ROI	103.68	59.88	100.93	59.09
L_V3_ROI	52.05	31.30	65.78	34.02
L_V4_ROI	60.63	38.21	92.45	47.64

L_V8_ROI	7.43	6.57	13.33	7.74
L_4_ROI	145.75	79.13	192.78	90.64
L_3b_ROI	87.30	59.25	139.88	70.15
L_FEF_ROI	31.65	22.56	9.58	13.54
L_PEF_ROI	17.05	11.39	4.88	6.92
L_55b_ROI	46.08	15.73	23.88	14.44
L_V3A_ROI	19.18	19.73	31.23	21.78
L_RSC_ROI	12.45	13.17	27.18	14.16
L_POS2_ROI	10.38	13.78	19.85	18.31
L_V7_ROI	7.10	7.78	10.50	7.47
L_IPS1_ROI	22.28	19.17	22.85	19.72
L_FFC_ROI	28.43	16.30	44.43	15.80
L_V3B_ROI	14.63	13.13	17.98	13.08
L_LO1_ROI	6.60	6.03	11.98	5.87
L_LO2_ROI	10.10	7.90	15.78	8.84
L_PIT_ROI	8.43	8.22	17.80	8.95
L_MT_ROI	8.33	7.29	19.90	7.67
L_A1_ROI	34.43	6.50	26.55	10.37
L_PSL_ROI	47.48	23.05	25.53	14.52
L_SFL_ROI	48.70	21.25	40.85	16.99
L_PCV_ROI	21.93	16.96	31.90	18.89
L_STV_ROI	34.40	18.43	36.13	18.11
L_7Pm_ROI	13.18	12.54	5.58	7.80
L_7m_ROI	22.23	13.66	42.05	15.08
L_POS1_ROI	19.68	17.17	48.20	25.68
L_23d_ROI	7.53	7.84	15.13	8.79
L_v23ab_ROI	5.93	7.04	24.55	9.43
L_d23ab_ROI	6.90	8.07	21.23	9.88
L_31pv_ROI	10.83	11.61	37.30	14.07
L_5m_ROI	14.50	12.57	32.33	17.93
L_5mv_ROI	24.00	18.73	46.48	24.52
L_23c_ROI	28.40	23.63	41.90	25.06
L_5L_ROI	22.50	22.17	50.90	23.92
L_24dd_ROI	43.85	25.62	55.85	23.99
L_24dv_ROI	27.50	18.54	40.98	19.19
L_7AL_ROI	20.03	26.13	57.75	27.72
L_SCEF_ROI	51.55	24.06	13.60	10.79
L_6ma_ROI	21.58	20.81	13.63	8.49
L_7Am_ROI	24.13	25.05	31.03	27.05

L_7PL_ROI	17.73	14.82	6.55	11.05
L_7PC_ROI	26.65	22.55	30.85	20.30
L_LIPv_ROI	23.75	17.07	14.63	18.30
L_VIP_ROI	19.88	14.34	21.40	17.13
L_MIP_ROI	31.83	21.89	9.00	12.26
L_1_ROI	62.23	47.26	89.95	43.68
L_2_ROI	90.68	79.69	120.95	54.14
L_3a_ROI	57.13	31.90	69.95	37.93
L_6d_ROI	32.83	22.25	30.45	19.97
L_6mp_ROI	36.10	30.86	68.10	35.85
L_6v_ROI	18.45	13.32	12.45	8.80
L_p24pr_ROI	14.03	9.93	22.68	10.55
L_33pr_ROI	10.33	6.49	8.55	7.09
L_a24pr_ROI	11.53	9.22	15.05	10.26
L_p32pr_ROI	26.60	17.92	11.65	12.77
L_a24_ROI	9.05	6.59	21.53	8.73
L_d32_ROI	15.13	11.88	17.43	11.50
L_8BM_ROI	34.33	20.45	25.88	17.66
L_p32_ROI	5.40	5.31	21.18	11.29
L_10r_ROI	12.75	8.76	33.23	8.23
L_47m_ROI	8.88	7.47	20.40	7.57
L_8Av_ROI	32.68	21.44	56.53	22.89
L_8Ad_ROI	24.15	19.11	54.75	27.10
L_9m_ROI	51.65	26.51	97.25	25.60
L_8BL_ROI	31.83	17.26	57.98	15.60
L_9p_ROI	19.90	14.58	45.73	15.39
L_10d_ROI	12.48	11.15	42.20	19.73
L_8C_ROI	52.58	25.80	44.83	32.64
L_44_ROI	43.85	14.65	29.05	15.52
L_45_ROI	65.75	19.10	77.35	17.90
L_47l_ROI	34.20	11.11	46.28	9.18
L_a47r_ROI	23.65	17.36	40.80	20.19
L_6r_ROI	43.53	30.46	12.90	10.40
L_IFJa_ROI	23.35	11.89	12.13	10.92
L_IFJp_ROI	21.88	14.28	4.08	8.09
L_IFSp_ROI	31.70	14.70	25.88	13.66
L_IFSa_ROI	29.05	21.55	24.05	14.95
L_p9-46v_ROI	19.20	15.78	6.40	8.18
L_46_ROI	17.43	20.55	15.05	12.67



L_a9-46v_ROI	9.80	13.21	7.18	9.87
L_9-46d_ROI	25.40	24.43	19.83	19.16
L_9a_ROI	25.13	19.20	50.83	19.74
L_10v_ROI	25.13	9.77	49.25	8.77
L_a10p_ROI	10.23	10.37	19.73	12.29
L_10pp_ROI	14.85	8.14	21.28	9.97
L_11l_ROI	15.68	12.86	22.55	12.55
L_13l_ROI	19.05	11.85	31.45	14.30
L_OFC_ROI	55.60	19.39	62.95	22.23
L_47s_ROI	23.05	9.98	37.98	10.91
L_LIPd_ROI	17.58	13.27	1.30	3.30
L_6a_ROI	70.48	40.10	28.75	23.50
L_i6-8_ROI	13.35	10.40	7.65	9.27
L_s6-8_ROI	6.73	7.36	4.50	5.02
L_43_ROI	19.78	11.66	36.50	15.67
L_OP4_ROI	45.28	22.94	54.03	26.12
L_OP1_ROI	26.23	18.58	37.05	20.46
L_OP2-3_ROI	27.75	18.33	47.53	19.39
L_52_ROI	18.18	11.31	18.43	10.02
L_RI_ROI	65.98	24.47	55.33	29.96
L_PFcml_ROI	23.90	16.07	31.83	18.21
L_Pol2_ROI	21.08	15.11	39.13	19.42
L_TA2_ROI	24.28	7.85	20.80	8.46
L_FOP4_ROI	40.13	25.00	10.75	10.51
L_MI_ROI	14.28	12.77	11.30	9.31
L_Pir_ROI	39.25	17.40	58.15	16.64
L_AVI_ROI	25.70	13.65	6.73	6.91
L_AAIC_ROI	7.50	6.14	12.10	9.27
L_FOP1_ROI	7.83	7.53	7.53	6.98
L_FOP3_ROI	13.50	11.46	18.78	10.03
L_FOP2_ROI	15.75	11.62	21.60	15.09
L_PFT_ROI	36.53	32.13	30.93	22.67
L_AIP_ROI	61.23	43.86	17.65	17.18
L_EC_ROI	16.90	6.78	20.88	10.73
L_PreS_ROI	29.48	14.89	35.28	16.67
L_H_ROI	40.25	20.27	69.45	24.47
L_ProS_ROI	24.15	16.84	25.53	19.08
L_PeEc_ROI	55.58	19.36	79.28	21.43
L_STGa_ROI	22.73	4.67	25.35	5.53

L_PBelt_ROI	66.60	13.92	50.70	20.75
L_A5_ROI	60.10	10.14	57.38	13.52
L_PHA1_ROI	21.18	11.52	29.88	13.12
L_PHA3_ROI	21.93	12.42	35.50	13.11
L_STSda_ROI	47.90	12.30	58.85	8.68
L_STSdp_ROI	87.28	15.90	86.48	16.46
L_STSvp_ROI	63.58	24.76	74.33	21.39
L_TGd_ROI	111.60	41.01	176.18	29.04
L_TE1a_ROI	30.00	15.05	49.03	11.76
L_TE1p_ROI	44.00	25.14	37.18	24.29
L_TE2a_ROI	45.98	14.51	53.68	17.84
L_TF_ROI	75.05	24.09	98.70	19.66
L_TE2p_ROI	28.35	13.54	30.53	13.94
L_PHT_ROI	31.83	20.84	37.90	18.65
L_PH_ROI	38.08	28.18	44.00	27.66
L_TPOJ1_ROI	59.13	25.34	55.50	21.04
L_TPOJ2_ROI	31.90	19.89	44.00	20.49
L_TPOJ3_ROI	14.50	11.17	26.50	12.30
L_DVT_ROI	10.28	10.02	19.50	13.55
L_PGp_ROI	18.05	16.66	29.88	17.92
L_IP2_ROI	22.78	24.19	1.45	3.89
L_IP1_ROI	24.18	22.01	8.78	11.99
L_IP0_ROI	15.30	13.03	7.23	7.10
L_PFop_ROI	20.43	19.58	33.23	19.94
L_PF_ROI	39.73	35.61	50.30	34.49
L_PFm_ROI	48.70	41.71	54.53	33.81
L_PGi_ROI	124.73	47.56	180.95	31.92
L_PGs_ROI	33.18	28.68	75.00	28.05
L_V6A_ROI	4.63	5.01	12.20	7.83
L_VMV1_ROI	12.78	9.51	14.43	10.71
L_VMV3_ROI	8.80	7.56	14.68	9.97
L_PHA2_ROI	14.75	9.21	22.00	8.48
L_V4t_ROI	6.23	6.14	13.98	6.47
L_FST_ROI	16.88	15.06	28.45	14.91
L_V3CD_ROI	10.00	10.52	19.38	11.28
L_LO3_ROI	7.70	8.02	17.18	9.80
L_VMV2_ROI	6.83	5.42	11.60	8.27
L_31pd_ROI	18.98	15.90	45.15	13.11
L_31a_ROI	4.48	5.22	9.18	7.18

L_VVC_ROI	20.95	13.27	36.30	14.73
L_25_ROI	13.48	5.88	19.43	6.16
L_s32_ROI	10.83	6.52	21.20	5.92
L_pOFC_ROI	13.05	7.27	17.50	8.24
L_Pol1_ROI	21.50	17.03	39.55	19.49
L_lg_ROI	11.63	9.23	18.58	9.72
L_FOP5_ROI	31.65	15.17	15.75	12.22
L_p10p_ROI	7.75	9.49	18.73	14.10
L_p47r_ROI	22.70	19.45	19.00	17.21
L_TGv_ROI	17.43	6.73	26.28	7.15
L_MBelt_ROI	35.85	9.72	29.25	12.32
L_LBelt_ROI	34.23	7.91	25.30	10.47
L_A4_ROI	78.38	15.83	65.80	20.90
L_STSva_ROI	45.80	15.40	59.55	9.59
L_TE1m_ROI	13.65	8.35	16.08	8.70
L_PI_ROI	31.43	16.31	33.40	13.30
L_a32pr_ROI	14.73	13.94	7.15	12.12
L_p24_ROI	4.08	5.69	6.13	5.77
All left MMP	5412.63	1820.39	6487.40	1519.80
All brain MMP	10327.65	3384.53	12727.98	2985.08

**Supplementary Table 2.** The difference in the PE numbers in each MMP regions between the two hemispheres in the STORY contrast. Data are presented in descending order of the effect size. Results with positive effect size are in the direction of the left hemisphere while negative results are in the direction of the right hemisphere. Only regions with significant results are shown.

	MMP	Statistics	Mean difference	95% CI		<i>p</i>	Effect size	Effect size 95% CI	
				Lower	Upper			Lower	Upper
1	PBelt_ROI	12.63	25.46	21.29	29.63	7.88E-12	2.85	1.75	3.76
2	STSva_ROI	10.74	24.03	19.50	28.55	3.23E-13	1.70	1.21	2.18
3	45_ROI	8.89	33.53	25.89	41.16	6.48E-11	1.41	0.96	1.84
4	STSvp_ROI	7.53	29.68	21.70	37.65	4.09E-09	1.19	0.78	1.59
5	SFL_ROI	6.27	23.20	15.71	30.69	2.22E-07	0.99	0.61	1.37
6	10v_ROI	5.86	7.85	5.14	10.56	8.10E-07	0.93	0.55	1.29
7	a47r_ROI	4.92	9.96	5.77	14.14	5.66E-05	0.91	0.53	1.45
8	PSL_ROI	5.73	22.38	14.48	30.27	1.21E-06	0.91	0.53	1.27
9	PGi_ROI	5.43	50.18	31.48	68.87	3.21E-06	0.86	0.49	1.22
10	55b_ROI	5.41	15.93	9.97	21.88	3.41E-06	0.86	0.49	1.21
11	44_ROI	5.07	19.30	11.60	27.00	0.00001	0.80	0.44	1.15
12	9p_ROI	5.03	11.13	6.65	15.60	0.00001	0.80	0.44	1.15
13	IFJp_ROI	4.86	9.68	5.64	13.71	0.00002	0.77	0.41	1.12
14	IFSa_ROI	4.79	13.75	7.94	19.56	0.00002	0.76	0.40	1.11
15	TE1a_ROI	4.75	10.93	6.27	15.58	0.00003	0.75	0.40	1.10
16	OP2-3_ROI	4.67	11.10	6.29	15.91	0.00003	0.74	0.38	1.09
17	PFm_ROI	4.62	22.88	12.86	32.89	0.00004	0.73	0.38	1.08
18	A1_ROI	4.62	6.45	3.62	9.28	0.00004	0.73	0.38	1.08
19	a24pr_ROI	4.40	5.58	3.01	8.14	0.00008	0.70	0.35	1.04
20	STGa_ROI	4.38	4.85	2.61	7.09	0.00009	0.69	0.34	1.03
21	FOP4_ROI	4.28	11.83	6.23	17.42	0.00012	0.68	0.33	1.02
22	TE1p_ROI	4.15	13.98	7.17	20.78	0.00017	0.66	0.31	1.00
23	9a_ROI	3.96	12.30	6.01	18.59	0.00031	0.63	0.28	0.96
24	MBelt_ROI	5.21	8.83	5.33	12.34	2.75E-05	0.63	0.37	1.15
25	52_ROI	3.96	6.63	3.24	10.01	0.00031	0.63	0.28	0.96
26	PHT_ROI	3.92	14.03	6.79	21.26	0.00035	0.62	0.28	0.96
27	9m_ROI	3.91	14.25	6.88	21.62	0.00036	0.62	0.28	0.95
28	47l_ROI	3.83	9.05	4.27	13.83	0.00045	0.61	0.27	0.94

29	d32_ROI	3.64	6.33	2.81	9.84	0.0008	0.58	0.24	0.91
30	LIPd_ROI	3.56	6.55	2.83	10.27	0.00098	0.56	0.23	0.89
31	SCEF_ROI	3.56	8.65	3.73	13.57	0.001	0.56	0.23	0.89
32	PGs_ROI	3.67	15.38	6.70	24.05	0.00128	0.54	0.32	0.87
33	p47r_ROI	3.67	12.04	5.26	18.82	0.00126	0.51	0.26	0.79
34	A4_ROI	3.11	8.93	3.13	14.72	0.00345	0.49	0.16	0.82
35	6r_ROI	3.00	11.88	3.88	19.87	0.00464	0.47	0.15	0.80
36	10r_ROI	2.98	3.38	1.08	5.67	0.005	0.47	0.14	0.79
37	a10p_ROI	2.96	5.48	1.73	9.22	0.00528	0.47	0.14	0.79
38	10d_ROI	2.92	4.20	1.29	7.11	0.00585	0.46	0.13	0.78
39	IP1_ROI	2.90	7.53	2.28	12.77	0.00605	0.46	0.13	0.78
40	OP1_ROI	2.90	6.18	1.86	10.49	0.00616	0.46	0.13	0.78
41	31pd_ROI	2.84	7.48	2.15	12.80	0.00717	0.45	0.12	0.77
42	PHA3_ROI	2.82	5.63	1.59	9.66	0.00757	0.45	0.12	0.77
43	IPS1_ROI	2.76	5.05	1.35	8.75	0.00877	0.44	0.11	0.76
44	9-46d_ROI	2.10	7.33	0.12	14.55	0.04661	0.43	0.15	0.80
45	8BM_ROI	2.71	8.40	2.13	14.67	0.00993	0.43	0.10	0.75
46	8C_ROI	2.71	12.55	3.18	21.92	0.00997	0.43	0.10	0.75
47	1_ROI	2.60	13.90	3.08	24.72	0.01315	0.41	0.09	0.73
48	13l_ROI	2.57	5.15	1.10	9.20	0.01414	0.41	0.08	0.73
49	LO2_ROI	2.35	2.50	0.35	4.65	0.0238	0.37	0.05	0.69
50	PF_ROI	2.27	10.40	1.12	19.68	0.029	0.36	0.04	0.68
51	IFJa_ROI	2.26	4.83	0.51	9.14	0.02919	0.36	0.04	0.68
52	8Av_ROI	2.22	8.85	0.79	16.91	0.03233	0.35	0.03	0.67
53	MI_ROI	2.14	3.58	0.12	7.05	0.04315	0.35	0.00	0.67
54	PI_ROI	2.16	4.90	0.31	9.49	0.03706	0.34	0.02	0.66
55	3b_ROI	2.12	13.18	0.62	25.73	0.04024	0.34	0.01	0.65
56	PHA2_ROI	2.07	2.73	0.06	5.39	0.04544	0.33	0.01	0.64
57	DVT_ROI	-2.21	-2.68	-5.12	-0.23	0.0328	-0.35	-0.67	-0.03
58	23d_ROI	-2.28	-2.38	-4.48	-0.27	0.0281	-0.36	-0.68	-0.04
59	V3A_ROI	-2.35	-4.05	-7.54	-0.56	0.02405	-0.37	-0.69	-0.05
60	FOP1_ROI	-2.37	-2.00	-3.71	-0.29	0.02301	-0.37	-0.69	-0.05
61	25_ROI	-2.40	-2.90	-5.35	-0.45	0.02137	-0.38	-0.70	-0.06
62	5mv_ROI	-2.46	-5.75	-10.47	-1.03	0.01829	-0.39	-0.71	-0.07
63	7Am_ROI	-2.48	-6.55	-11.89	-1.21	0.01755	-0.39	-0.71	-0.07
64	OFC_ROI	-2.50	-8.85	-16.02	-1.68	0.0168	-0.40	-0.71	-0.07
65	MST_ROI	-2.74	-4.30	-7.48	-1.12	0.00929	-0.43	-0.75	-0.11
66	PIT_ROI	-2.79	-3.25	-5.61	-0.89	0.0081	-0.44	-0.76	-0.11
67	V8_ROI	-2.83	-3.55	-6.09	-1.01	0.00738	-0.45	-0.77	-0.12

68	V6_ROI	-3.99	-4.63	-7.02	-2.23	5.77E-04	-0.45	-0.82	-0.15
69	5m_ROI	-2.59	-4.88	-8.76	-0.99	0.01624	-0.46	-0.79	-0.20
70	pOFC_ROI	-3.00	-5.35	-8.95	-1.75	0.00466	-0.47	-0.80	-0.14
71	RSC_ROI	-3.05	-4.68	-7.78	-1.57	0.00412	-0.48	-0.81	-0.15
72	VMV3_ROI	-3.11	-3.53	-5.82	-1.23	0.00353	-0.49	-0.82	-0.16
73	LBelt_ROI	-3.10	-3.08	-5.14	-1.03	0.00501	-0.49	-0.92	-0.16
74	STSda_ROI	-3.13	-12.68	-20.86	-4.49	0.00327	-0.50	-0.82	-0.16
75	V3CD_ROI	-3.35	-4.55	-7.30	-1.80	0.0018	-0.53	-0.86	-0.20
76	V6A_ROI	-3.42	-1.73	-2.74	-0.71	0.00146	-0.54	-0.87	-0.21
77	TPOJ1_ROI	-3.65	-23.10	-35.89	-10.31	0.00076	-0.58	-0.91	-0.24
78	TPOJ3_ROI	-3.96	-6.90	-10.43	-3.37	0.00031	-0.63	-0.96	-0.28
79	V4t_ROI	-4.05	-3.73	-5.59	-1.86	0.00024	-0.64	-0.98	-0.30
80	Ig_ROI	-4.85	-10.58	-14.99	-6.16	0.00002	-0.77	-1.12	-0.41
81	VMV2_ROI	-5.10	-8.50	-11.87	-5.13	9.18E-06	-0.81	-1.16	-0.44
82	VMV1_ROI	-5.17	-8.25	-11.48	-5.02	7.24E-06	-0.82	-1.17	-0.46
83	TA2_ROI	-5.24	-8.15	-11.29	-5.01	5.77E-06	-0.83	-1.19	-0.47
84	V3_ROI	-5.46	-13.85	-18.98	-8.72	2.90E-06	-0.86	-1.22	-0.50
85	TGv_ROI	-5.57	-11.70	-15.95	-7.45	2.05E-06	-0.88	-1.24	-0.51
86	A5_ROI	-11.46	-26.20	-30.82	-21.58	4.69E-14	-1.81	-2.31	-1.30

**Supplementary Table 3.** The difference in the PE numbers in the MMP regions between the two hemispheres in the STORY-MATH contrast. Data are presented in a descending order of the effect size. Results with positive effect size are in the direction of the left hemisphere while negative results are in the direction of the right hemisphere. Only regions with significant results are shown.

	MMP	Statistics	Mean difference	95% CI		<i>p</i>	Effect size	Effect size 95% CI	
				Lower	Upper			Lower	Upper
1	STSva_ROI	14.79	25.23	21.78	28.67	1.3918E-17	2.34	1.73	2.94
2	PGs_ROI	9.55	45.43	35.81	55.04	9.2261E-12	1.51	1.05	1.96
3	PGi_ROI	9.17	58.78	45.81	71.74	2.833E-11	1.45	1.00	1.89
4	45_ROI	9.14	28.53	22.21	34.84	3.0906E-11	1.44	0.99	1.89
5	STSvp_ROI	8.99	34.48	26.72	42.23	4.8177E-11	1.42	0.97	1.86
6	d23ab_ROI	8.62	10.80	8.27	13.33	1.4349E-10	1.36	0.93	1.79
7	9p_ROI	8.36	22.98	17.42	28.53	3.1694E-10	1.32	0.89	1.74
8	31pd_ROI	7.73	16.73	12.35	21.10	2.1605E-09	1.22	0.81	1.63
9	10v_ROI	7.56	11.48	8.41	14.54	3.6692E-09	1.20	0.78	1.60
10	a47r_ROI	6.73	17.98	12.57	23.38	5.0549E-08	1.06	0.67	1.45
11	STGa_ROI	6.73	4.75	3.32	6.18	5.0696E-08	1.06	0.67	1.45
12	OP2-3_ROI	6.41	13.73	9.40	18.05	1.3848E-07	1.01	0.63	1.39
13	PHA3_ROI	6.09	10.98	7.33	14.62	3.8284E-07	0.96	0.58	1.34
14	a24pr_ROI	6.06	8.45	5.63	11.27	4.2304E-07	0.96	0.58	1.33
15	PBelt_ROI	5.92	17.23	11.34	23.11	6.7475E-07	0.94	0.56	1.30
16	TE1p_ROI	5.83	19.05	12.44	25.66	8.969E-07	0.92	0.55	1.29
17	TE1a_ROI	5.75	12.00	7.78	16.22	1.1672E-06	0.91	0.54	1.27
18	PFm_ROI	5.65	29.68	19.05	40.30	1.581E-06	0.89	0.52	1.26
19	10d_ROI	5.62	13.08	8.37	17.78	1.7623E-06	0.89	0.52	1.25
20	POS1_ROI	4.12	13.46	6.70	20.21	4.16E-04	0.86	0.34	1.65
21	SFL_ROI	5.23	13.78	8.45	19.10	6.0889E-06	0.83	0.46	1.18
22	LO2_ROI	4.80	4.83	2.79	6.86	0.00002	0.76	0.40	1.11
23	10r_ROI	4.69	5.40	3.07	7.73	0.00003	0.74	0.39	1.09
24	PHT_ROI	4.64	14.65	8.27	21.03	0.00004	0.73	0.38	1.08
25	MT_ROI	4.61	6.03	3.38	8.67	0.00004	0.73	0.38	1.07
26	13l_ROI	4.49	10.80	5.93	15.67	0.00006	0.71	0.36	1.05
27	9a_ROI	4.48	14.45	7.92	20.98	0.00006	0.71	0.36	1.05
28	a10p_ROI	4.45	10.08	5.50	14.65	0.00007	0.70	0.35	1.05

29	8BM_ROI	4.30	9.70	5.13	14.27	0.00011	0.68	0.33	1.02
30	52_ROI	4.00	6.23	3.08	9.37	0.00028	0.63	0.29	0.97
31	9m_ROI	4.00	13.75	6.79	20.71	0.00028	0.63	0.29	0.97
32	TGd_ROI	3.59	15.40	6.72	24.08	0.00092	0.57	0.23	0.90
33	H_ROI	3.56	10.85	4.68	17.02	0.001	0.56	0.23	0.89
34	A4_ROI	3.52	11.03	4.69	17.36	0.00112	0.56	0.22	0.89
35	TE1m_ROI	3.42	6.15	2.51	9.79	0.00147	0.54	0.21	0.87
36	11l_ROI	3.38	6.90	2.77	11.03	0.00166	0.53	0.20	0.86
37	FOP4_ROI	3.34	4.75	1.87	7.63	0.00188	0.53	0.19	0.86
38	8Av_ROI	3.30	15.85	6.13	25.57	0.00208	0.52	0.19	0.85
39	MBelt_ROI	3.29	6.08	2.34	9.81	0.00213	0.52	0.19	0.85
40	47l_ROI	3.22	7.30	2.71	11.89	0.00259	0.51	0.18	0.84
41	IPS1_ROI	2.59	7.10	1.55	12.65	0.01346	0.41	0.08	0.73
42	PHA2_ROI	2.55	4.03	0.83	7.22	0.01487	0.40	0.08	0.72
43	7AL_ROI	2.47	8.15	1.47	14.83	0.01813	0.39	0.07	0.71
44	55b_ROI	2.43	5.65	0.95	10.35	0.01979	0.38	0.06	0.70
45	STSdp_ROI	2.39	10.80	1.64	19.96	0.02198	0.38	0.05	0.70
46	OP1_ROI	2.35	6.78	0.96	12.59	0.02366	0.37	0.05	0.69
47	p24pr_ROI	2.28	4.15	0.46	7.84	0.02834	0.36	0.04	0.68
48	PH_ROI	2.25	6.30	0.63	11.97	0.03036	0.36	0.03	0.67
49	V4_ROI	2.24	10.28	1.01	19.54	0.03065	0.35	0.03	0.67
50	d32_ROI	2.21	4.38	0.37	8.38	0.03309	0.35	0.03	0.67
51	MI_ROI	2.03	2.88	0.00	5.75	0.04968	0.32	0.00	0.64
52	PF_ROI	-2.08	-12.80	-25.27	-0.33	0.04446	-0.33	-0.64	-0.01
53	3b_ROI	-2.09	-15.63	-30.73	-0.52	0.04294	-0.33	-0.65	-0.01
54	V7_ROI	-2.12	-2.35	-4.60	-0.10	0.04073	-0.33	-0.65	-0.01
55	TE2p_ROI	-2.14	-5.18	-10.06	-0.29	0.0385	-0.34	-0.66	-0.02
56	47m_ROI	-2.16	-1.90	-3.68	-0.12	0.03732	-0.34	-0.66	-0.02
57	LO1_ROI	-2.16	-2.35	-4.55	-0.15	0.0372	-0.34	-0.66	-0.02
58	p10p_ROI	-2.17	-4.00	-7.73	-0.27	0.03605	-0.34	-0.66	-0.02
59	PGp_ROI	-2.21	-5.75	-11.02	-0.48	0.03335	-0.35	-0.67	-0.03
60	V6A_ROI	-2.43	-2.54	-4.71	-0.37	0.02353	-0.35	-0.82	-0.03
61	4_ROI	-2.33	-16.23	-30.32	-2.13	0.02518	-0.37	-0.69	-0.05
62	V4t_ROI	-2.39	-2.13	-3.93	-0.32	0.02193	-0.38	-0.70	-0.05
63	AIP_ROI	-2.41	-8.65	-15.92	-1.38	0.02091	-0.38	-0.70	-0.06
64	V6_ROI	-2.44	-3.53	-6.44	-0.61	0.01923	-0.39	-0.71	-0.06
65	p24_ROI	-2.49	-2.78	-5.03	-0.52	0.01697	-0.39	-0.71	-0.07
66	LO3_ROI	-2.58	-4.20	-7.49	-0.91	0.01376	-0.41	-0.73	-0.08
67	LIPv_ROI	-2.45	-7.00	-12.91	-1.09	0.0224	-0.41	-0.76	-0.06



68	V8_ROI	-2.96	-3.68	-6.19	-1.16	0.00521	-0.47	-0.79	-0.14
69	v23ab_ROI	-3.01	-6.08	-10.16	-1.99	0.00461	-0.48	-0.80	-0.15
70	TPOJ1_ROI	-3.06	-17.90	-29.74	-6.06	0.004	-0.48	-0.81	-0.15
71	7PC_ROI	-3.08	-8.15	-13.51	-2.79	0.00382	-0.49	-0.81	-0.16
72	7m_ROI	-3.10	-5.78	-9.54	-2.01	0.00358	-0.49	-0.82	-0.16
73	s6-8_ROI	-3.11	-5.60	-9.25	-1.95	0.00353	-0.49	-0.82	-0.16
74	FEF_ROI	-2.99	-7.96	-13.46	-2.45	0.00653	-0.50	-0.87	-0.14
75	OP4_ROI	-3.18	-13.93	-22.79	-5.06	0.00292	-0.50	-0.83	-0.17
76	6d_ROI	-3.47	-8.80	-13.92	-3.68	0.00127	-0.55	-0.88	-0.21
77	OFC_ROI	-3.53	-13.45	-21.17	-5.73	0.0011	-0.56	-0.89	-0.22
78	VMV1_ROI	-3.56	-8.18	-12.81	-3.54	0.00098	-0.56	-0.89	-0.23
79	pOFC_ROI	-3.76	-8.33	-12.80	-3.85	0.00055	-0.60	-0.93	-0.26
80	3a_ROI	-3.78	-14.80	-22.71	-6.89	0.00052	-0.60	-0.93	-0.26
81	2_ROI	-3.79	-30.98	-47.51	-14.44	0.00051	-0.60	-0.93	-0.26
82	PeEc_ROI	-3.99	-14.25	-21.47	-7.03	0.00028	-0.63	-0.97	-0.29
83	6v_ROI	-4.06	-7.63	-11.42	-3.83	0.00023	-0.64	-0.98	-0.30
84	V3_ROI	-4.30	-14.10	-20.73	-7.47	0.00011	-0.68	-1.02	-0.33
85	A5_ROI	-4.40	-15.58	-22.74	-8.41	0.00008	-0.70	-1.04	-0.35
86	TA2_ROI	-4.66	-8.75	-12.55	-4.95	0.00004	-0.74	-1.08	-0.38
87	24dd_ROI	-4.70	-16.03	-22.92	-9.13	0.00003	-0.74	-1.09	-0.39
88	1_ROI	-4.84	-23.60	-33.45	-13.75	0.00002	-0.77	-1.12	-0.41
89	5m_ROI	-3.05	-11.04	-18.53	-3.55	0.00568	-0.90	-1.39	-0.53
90	V3CD_ROI	-5.74	-8.18	-11.05	-5.30	1.1741E-06	-0.91	-1.27	-0.53
91	PFcm_ROI	-6.02	-19.35	-25.85	-12.85	4.811E-07	-0.95	-1.32	-0.57
92	VMV2_ROI	-6.38	-10.95	-14.42	-7.48	1.5531E-07	-1.01	-1.39	-0.62
93	TGv_ROI	-8.33	-14.68	-18.24	-11.11	3.4639E-10	-1.32	-1.74	-0.89
94	Ig_ROI	-8.58	-19.35	-23.91	-14.79	1.6451E-10	-1.36	-1.78	-0.92
95	STSda_ROI	-14.86	-27.78	-31.56	-23.99	1.1969E-17	-2.35	-2.95	-1.74

**Supplementary Table 4.** The difference in the PE numbers in each MMP region between the handedness groups in the STORY contrast. Results are in the descending order of the effect size. Results with positive effect size are in the direction of left handedness while negative results are in the direction of right handedness. Only regions with significant results are shown.

	MMP	<i>Statistics</i>	Mean difference	95% CI		<i>p</i>	Effect size	Effect size 95% CI	
				Lower	Upper			Lower	Upper
1	R_STSvp_ROI	3.32	18.50	6.90	30.10	0.0033	1.14	0.06	2.61
2	L_LBelt_ROI	2.43	3.67	0.50	6.83	0.02541	0.84	0.06	1.43
3	R_44_ROI	2.29	15.33	1.28	29.38	0.03412	0.79	0.17	1.70
4	L_SFL_ROI	-3.01	-18.40	-30.79	-6.01	0.00467	-0.95	-1.60	-0.29
5	L_9p_ROI	-3.21	-13.30	-21.77	-4.83	0.00319	-1.01	-1.68	-0.34

**Supplementary Table 5.** The difference in the PE numbers in each MMP region between the handedness groups in the STORY-MATH contrast. Results are in the descending order of the effect size. Results with positive effect size are in the direction of left handedness while negative results are in the direction of right handedness. Only regions with significant results are shown.

	MMP	Statistics	Mean difference	95% CI		<i>p</i>	Effect size	Effect size 95% CI	
				Lower	Upper			Lower	Upper
1	R_7Am_ROI	3.89	22.50	10.35	34.65	0.00109	1.34	0.50	2.90
2	R_STSDp_ROI	3.59	26.85	11.72	41.98	0.00093	1.14	0.46	1.80
3	R_PGs_ROI	3.15	21.08	7.11	35.05	0.00509	1.09	0.32	2.10
4	R_31pd_ROI	3.14	11.33	3.86	18.81	0.00471	1.08	0.29	1.93
5	R_PCV_ROI	3.13	17.58	5.93	29.24	0.00489	1.08	0.37	1.84
6	R_8Av_ROI	3.16	24.05	8.64	39.46	0.00309	1.00	0.33	1.65
7	R_PGI_ROI	2.85	37.50	10.16	64.84	0.00947	0.98	0.39	2.29
8	R_PHT_ROI	2.84	12.83	3.42	22.25	0.01002	0.98	0.20	2.25
9	R_8Ad_ROI	2.99	22.35	7.23	37.47	0.00485	0.95	0.29	1.60
10	R_TPOJ1_ROI	2.88	30.00	8.90	51.10	0.00653	0.91	0.25	1.56
11	R_TGv_ROI	2.59	9.00	1.96	16.04	0.01362	0.82	0.17	1.46
12	R_52_ROI	2.33	8.75	0.94	16.56	0.02985	0.80	0.13	1.55
13	R_STSVp_ROI	2.48	15.40	2.81	27.99	0.01784	0.78	0.13	1.42
14	R_MIP_ROI	2.27	10.00	0.64	19.36	0.03784	0.78	0.17	1.72
15	R_IPS1_ROI	2.46	9.70	1.66	17.74	0.01971	0.78	0.12	1.42
16	R_TF_ROI	2.45	20.30	3.53	37.07	0.01898	0.77	0.13	1.41
17	R_A5_ROI	2.19	12.58	0.50	24.66	0.04204	0.75	0.10	1.64
18	R_STSda_ROI	2.38	8.65	1.30	16.00	0.02238	0.75	0.11	1.39
19	L_3b_ROI	2.34	49.15	6.62	91.68	0.02468	0.74	0.09	1.38
20	R_RI_ROI	2.34	17.65	2.35	32.95	0.0249	0.74	0.09	1.38
21	R_8BL_ROI	2.27	15.40	1.68	29.12	0.0288	0.72	0.07	1.35
22	R_TE2p_ROI	2.26	13.80	1.43	26.17	0.02972	0.71	0.07	1.35
23	R_10pp_ROI	2.25	7.10	0.72	13.48	0.03007	0.71	0.07	1.35
24	R_4_ROI	2.19	59.60	4.56	114.64	0.03455	0.69	0.05	1.33
25	R_TE1m_ROI	2.17	4.65	0.30	9.00	0.03698	0.69	0.04	1.32
26	L_24dd_ROI	2.17	15.70	1.02	30.38	0.03672	0.68	0.04	1.32
27	L_PGp_ROI	2.11	11.45	0.46	22.44	0.04167	0.67	0.02	1.30
28	R_A1_ROI	2.09	5.75	0.17	11.33	0.04385	0.66	0.02	1.30

29	R_10v_ROI	2.04	4.55	0.04	9.06	0.0481	0.65	0.01	1.28
30	R_9a_ROI	2.04	10.45	0.07	20.83	0.04845	0.64	0.00	1.28
31	L_SFL_ROI	-2.23	-11.40	-21.81	-0.99	0.03282	-0.70	-1.34	-0.06
32	L_TE1p_ROI	-3.87	-23.00	-35.41	-10.59	0.00096	-1.33	-2.57	-0.34