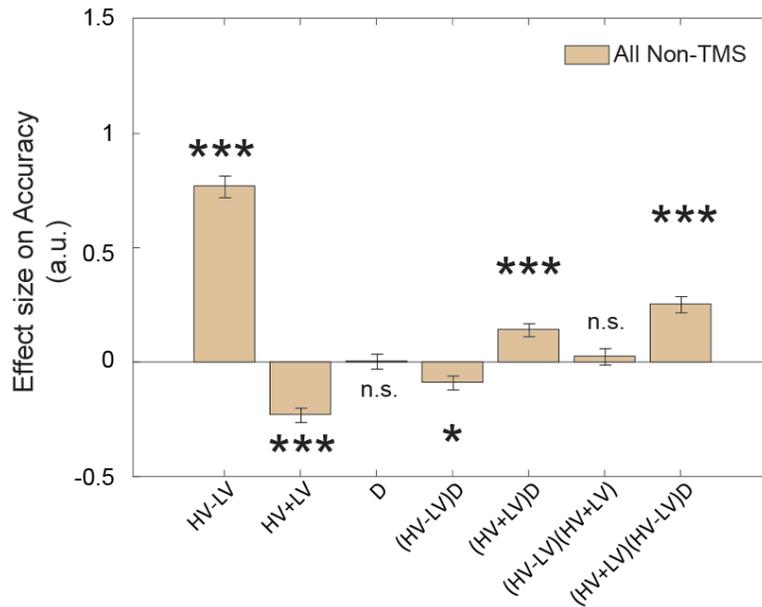


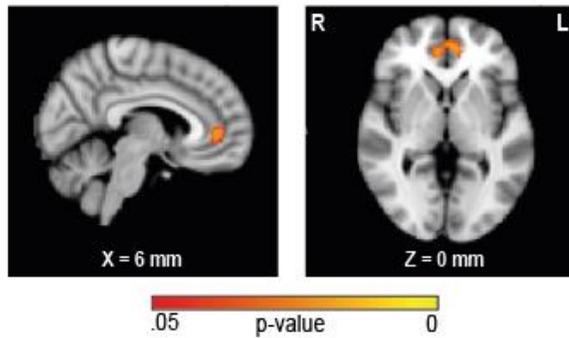
Supplementary Figures:

Supplementary Figure S1



Supplementary Figure S1: Participants showed smaller negative distractor effect when HV+LV was large. Divisive normalisation models predict that the size of the negative distractor effect is smaller when HV+LV is large, since the distractor value contributes less to the overall value of HV+LV+D. To test whether this was the case in our data, we applied a GLM (which is identical to GLM5 of Chau et al., 2020) in which accuracy in all Non-TMS trials was predicted using the terms, HV-LV, HV+LV, and D, as well as all two-way and three-way interactions: $\beta_0 + \beta_1 z_{(HV-LV)} + \beta_2 z_{(HV+LV)} + \beta_3 z_{(D)} + \beta_4 z_{(HV-LV)} z_{(D)} + \beta_5 z_{(HV+LV)} z_{(D)} + \beta_6 z_{(HV-LV)} z_{(HV+LV)} + \beta_7 z_{(HV-LV)} z_{(HV+LV)} z_{(D)} + \epsilon$. We found a positive effect of (HV+LV)D on accuracy ($t(30) = 5.07$, $p < 0.001$, $d = 0.91$, $CI = [0.09, 0.2]$), which was broadly consistent with the divisive normalisation prediction. In addition, as in Figure 2c, this analysis showed a significant (HV-LV)D effect, suggesting that the distractor effect reversed as a function of choice difficulty). These results are consistent with previous work (cf. Appendix 3, Chau et al., 2020). * $p < 0.05$, *** $p < 0.001$. Error bars denote standard error.

Supplementary Figure S2



Supplementary Figure S2: VBM reveals association between MIP TMS and frontal region:

We conducted a region of interest analysis on parietal/occipital regions and identified an association between the effect of MIP stimulation on the distractor effect and MIP (Figure 3). For completeness, we also conducted a whole-brain analysis. The MIP effect reported in Figure 3 was no longer significant. Instead, we found an association between the TMS effect and the pregenual anterior cingulate cortex (pgACC), with larger MIP TMS effects associated with smaller pgACC GM ($p = 0.018$, centred around MNI X(0), Y(48), Z(4)).

