## MMLU Professional Psychology $\textstyle\sum_{\mathsf{Incorrect}\ \mathsf{Choice}} p_{\theta}^{\mathsf{Vocab}}(\mathsf{Incorrect}\ \mathsf{Choice})$ $p_{\theta}^{\mathsf{Vocab}}(\mathsf{Correct\ Choice})$ $10^{0}$ $10^{-1}$ Probability Mass $10^{-3}$ M ss $10^{-3}$ $10^{-4}$ $10^{-5}$ $10^{18}$ $10^{17}$ $10^{19}$ $10^{20}$ $10^{21}$ $10^{22}$ $10^{17}$ $10^{18}$ $10^{19}$ $10^{20}$ $10^{21}$ $10^{22}$

Compute (6ND)

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Cerebras (Param. and Data Scaling)
Pythia 12B Param. (Data Scaling)
Pythia 300B Tokens (Param. Scaling)

Model Family