

INITIAL VERSION

This article provides new lower bounds for both Schur and weak Schur numbers. These results were obtained by continuing on Rowley's "template"-based approach for Schur and Ramsey numbers. We also generalized the concept of "template" to weak Schur numbers. Finding new templates allows us to get explicit partitions improving lower bounds as well as the growth rate for Schur numbers, weak Schur numbers and Ramsey numbers $R_n(3)$. The new lower bounds include $S(9) \geq 17\,803$, $S(10) \geq 60\,948$, $WS(6) \geq 646$, $WS(9) \geq 22\,536$ and $WS(10) \geq 71\,256$.

REVISED VERSION

We provide one with new lower bounds for both Schur and weak Schur numbers exploiting a template-based approach for Schur and Ramsey numbers. These bounds for Schur are $S(9) \geq 17\,803$ and $S(10) \geq 60\,948$, while for weak Schur they are $WS(6) \geq 646$, $WS(9) \geq 22\,536$, and $WS(10) \geq 71\,256$.

The enriched templates developed also allow us to explicit the growth rate for Schur, weak Schur, and Ramsey numbers $R_n(3)$.