

43. (a) Again from Fig. 32-9, for $M/M_{\text{max}} = 50\%$ we have $B/T = 0.50$. So $T = B/0.50 = 2/0.50 = 4 \text{ K}$.
(b) Now $B/T = 2.0$, so $T = 2/2.0 = 1 \text{ K}$.