47. If a grating just resolves two wavelengths whose average is $\lambda_{\rm avg}$ and whose separation is $\Delta\lambda$, then its resolving power is defined by $R=\lambda_{\rm avg}/\Delta\lambda$. The text shows this is Nm, where N is the number of rulings in the grating and m is the order of the lines. Thus $\lambda_{\rm avg}/\Delta\lambda=Nm$ and

$$N = \frac{\lambda_{\rm avg}}{m \, \Delta \lambda} = \frac{656.3 \, {\rm nm}}{(1)(0.18 \, {\rm nm})} = 3650 \, {\rm rulings} \; .$$