

8 Practices of a Mathematician

1. **Makes sense of problems and PERSEVERES in solving them.**
use metacognition
2. **Reasons abstractly and quantitatively.**
stick with it *revise*
3. **Constructs viable arguments and critique others' reasoning.**
What's the evidence?
4. **Models with mathematics!**
visualize
5. **Uses appropriate tools strategically.**
create representations
6. **Attends to precision**
minimize mistakes *clearly communicate*
7. **Looks for and makes use of structure.**
properties *functions* *patterns*
8. **Looks for and expresses regularity in repeated reasoning.**
discover rules