

Myths about mathematics	Facts about mathematics
Mathematics isn't for everyone.	Everyone is capable of learning mathematics.
Learn it for the test, and move on.	Understanding isn't forgotten.
"I'm not good at mathematics" is acceptable for some students.	"I can do mathematics" coupled with a growth mindset is necessary for all students.
Some students, especially boys, are better at mathematics than other students, like girls.	No one group is better at mathematics than another; everyone is able to do high-quality mathematics!
Some people are just better at mathematics.	Some people have more and better opportunities to learn and play with mathematics.
I don't have a math brain.	Everyone can think and reason about mathematical ideas and concepts.
If you are good at mathematics, it should be easy.	Engaging in productive struggle is an important component in learning mathematics.
Mathematics is a collection of tips, tricks, and shortcuts.	Mathematics should make sense, and students should understand how it works. This includes common efficiencies or shortcuts.
Being fast at mathematics is evidence of doing it well.	Doing mathematics with understanding, depth, and thoroughness is doing it well.

Answers to Your Biggest Questions About Teaching Elementary Math by SanGiovanni, Katt, Knighten, and Rivera, p. 4