

Summer Math Practice for Rising Sixth Graders

Mathematics is a language that describes and quantifies the fundamental, rational relationships God has designed in His natural, physical law. Because mathematics is a language, it must be treated as such. Just as letters in the alphabet represent specific sounds, numbers and symbols represent specific quantities and concepts. As letters are joined together to form words expressing specific thought, numbers and symbols are joined to form equations expressing specific concepts and relationships. Like languages, learning mathematics is cumulative, with each stage expanding on earlier ones: each stage must be mastered fully in order to understand the next. To become fluent in mathematics, students must gain a firm grasp on the basics, then build on and apply those basics to expand their vocabulary and use.

Our desire at Trinity is to have students who are fluent mathematicians at each grade level. All students lose some math skills over the summer and those skills need to be reviewed at the beginning of each year. It is our hope, that with a small amount of practice each week, our students will retain more of those basic foundational skills that will help them to start the year stronger and better prepared for the new skills to be learned. **Students should take time each week (about 30 minutes) to review and practice math skills. We understand that vacation times may keep students from doing this every week. The log sheet should be filled in and returned to your teacher at the beginning of the school year. This practice will be counted as a homework grade.**

The following skills are essential for students to master before entering Sixth Grade. These skills will not be extensively reviewed so that new skills can be taught. (Math facts in Sixth Grade are tested with five minute timed tests of 100 equations.)

- **Addition and Subtraction facts--memorized**
- **Multiplication and Division facts--memorized**
- **Two digit multiplication and division**
- **Addition and Subtraction of decimals and fractions**
- **Customary measurement conversions for length, capacity, and weight**

These skills can be practiced with worksheets or online. The following are suggested resources, websites, or apps. You are welcome to use other resources to practice these skills.

- **Khan Academy** www.khanacademy.org
- **IXL Math** www.ixl.com
- **Quantile Frameworks** <https://www.quantiles.com> (can be linked to student's CTP 4 test scores)
- **mathfactcafe.com**
- **splashmath.com**

- **Fifth grade review workbooks from Parent-Teacher Store, Walmart, etc.**
- **Flashcards**