

Summer Math Practice

Dear Rising Fifth Grade Parents,

Automatic recall of basic math facts is so critical to development in math that it must be given serious attention. It makes possible a greater understanding of number sense, the foundation for all higher-level mathematical thinking, and forms the brush strokes with which higher-level math concepts are painted. Basic fluency in math facts is a must for students to have the confidence and capacity to do basic computation as well as think freely about the big ideas in mathematics. When students do more than just memorize facts but engage also in rich mathematics activities, such as those presented here, students learn and can remember math facts with greater fluency. The goal is that students can answer a math fact in about 3 to 4 seconds. Throughout this school year your child has grown immensely in this area. Continued practice of **addition and subtraction math facts up to 20 and multiplication and division facts up to 12** during the summer is key to maintaining that growth and preparing your child for next year.

There are a variety of fun and easy ways to practice math facts. Here are a few ideas.

Check out a variety of multiplication and division activities on our TCA website.

<https://www.tcatitans.org/family/elementary-parent-resources>

Multiplication and Division activities that develop fluency are especially helpful for students at this level. Check out: Salute, War, and Traffic Light Flash Cards all under the Multiplication and Division section. If your child does not have automaticity of their addition and subtraction facts there are several good activities to help develop that too.

Online Resources: *(As with any online resource, we suggest adult supervision of sites with advertisements)*

<https://xtramath.org>

All Grade Levels – All facts - Tracks student progress and customizes the practice based on need

www.mathfactcafe.com and www.aplusmath.com

All Grade Levels – All facts - Practice flash cards online or build math practice sheets

<http://www.arcademicskillbuilders.com>

Math Games for All Grade Levels – All Operations - Look for games that encourage a speedy response to develop fluency.

The “Bedtime Math” app. (available on the app store) Gives daily problems that are differentiated with layered difficulty for all grades.

Card games, dice games, and board games are a great way to practice math skills while enjoying some family fun. Some suggestions: Yahtzee, Aggravation, Uno, Phase 10, Qwirkle, Sequence, Shut the Box, or any game that requires problem solving, counting, or number patterns.

Timed Math Facts

In order to have math fact fluency that leads to higher order mathematics, students at this level need to be able to complete 40 multiplication and division or addition and subtraction problems in 2 minutes. Through automaticity students free up their working memory and can devote it to problem solving and learning new concepts and skills.

Here is a sample Multiplication and Division math fact sheet. Additional practice sheets for Multiplication and Division as well as Addition and Subtraction can be generated at www.mathfactcafe.com or www.aplusmath.com.

$49 \div 7 = \underline{\quad}$

$5 \times 5 = \underline{\quad}$

$5 \times 3 = \underline{\quad}$

$12 \div 2 = \underline{\quad}$

$5 \times 11 = \underline{\quad}$

$6 \times 10 = \underline{\quad}$

$40 \div 8 = \underline{\quad}$

$1 \times 6 = \underline{\quad}$

$9 \div 9 = \underline{\quad}$

$10 \times 7 = \underline{\quad}$

$7 \div 7 = \underline{\quad}$

$1 \times 3 = \underline{\quad}$

$6 \times 9 = \underline{\quad}$

$11 \times 3 = \underline{\quad}$

$8 \div 2 = \underline{\quad}$

$20 \div 2 = \underline{\quad}$

$63 \div 7 = \underline{\quad}$

$8 \times 9 = \underline{\quad}$

$2 \times 5 = \underline{\quad}$

$77 \div 7 = \underline{\quad}$

$9 \times 11 = \underline{\quad}$

$12 \times 5 = \underline{\quad}$

$3 \times 7 = \underline{\quad}$

$18 \div 6 = \underline{\quad}$

$7 \times 11 = \underline{\quad}$

$10 \times 2 = \underline{\quad}$

$9 \times 3 = \underline{\quad}$

$10 \times 8 = \underline{\quad}$

$48 \div 6 = \underline{\quad}$

$50 \div 10 = \underline{\quad}$

$7 \times 10 = \underline{\quad}$

$27 \div 9 = \underline{\quad}$

$90 \div 9 = \underline{\quad}$

$3 \times 4 = \underline{\quad}$

$5 \times 8 = \underline{\quad}$

$40 \div 4 = \underline{\quad}$

$10 \div 5 = \underline{\quad}$

$64 \div 8 = \underline{\quad}$

$9 \times 7 = \underline{\quad}$

$2 \times 6 = \underline{\quad}$