

Summer Math Practice

Dear Rising Second 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 first grade school year your child has grown immensely in this area. Continued practice of addition and subtraction math facts up to 20 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 number bond and addition and subtraction activities on our TCA website.

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

Here are some suggestions that are particularly good for preparing for second grade:

- Number Bonds: Number Bond and Fact Family Practice to 20, Fun with Number Bonds (Use number 11-20 for your whole) and Pyramid Bonds
- All activities under Addition and Subtraction

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.

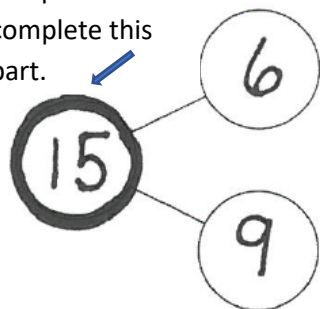
Card games, dice games, and board games are a great way to practice math skills while enjoying some family fun. Some suggestions: Yahtzee, Aggravation, Chutes and Ladders, Uno, Phase 10, Qwirkle, Sequence, or any game that requires problem solving, counting, or number patterns.

Number Bond and Fact Family Practice to 20

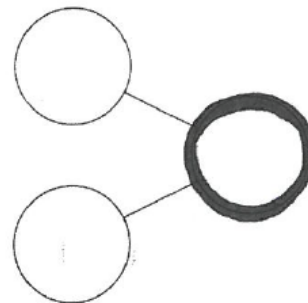
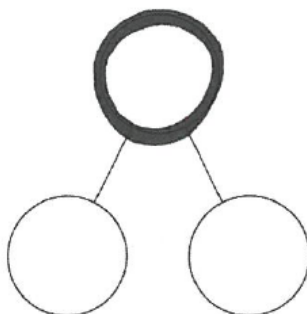
Directions: Use a regular deck of playing cards without the face cards. Choose two cards to start your number bond. Use the two numbers for the parts. Then determine the whole and write all four number sentences for that number bond. *The whole is bold.

Sample: I

complete this
part.



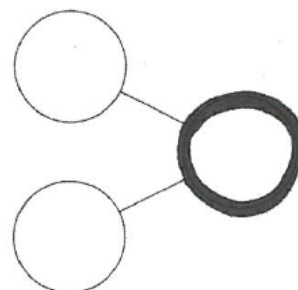
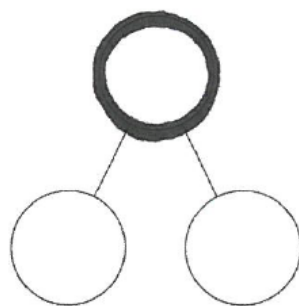
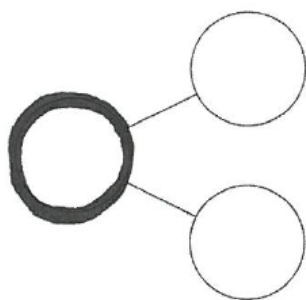
I drew a 6
and a 9.



$$\begin{array}{l} 9 + 6 = 15 \\ 6 + 9 = 15 \\ 15 - 9 = 6 \\ 15 - 6 = 9 \end{array}$$

$$\begin{array}{l} \square + \square = \square \\ \square + \square = \square \\ \square - \square = \square \\ \square - \square = \square \end{array}$$

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Continue to practice number bonds and fact families by drawing your own number bonds and writing your own fact families. There are more number bond activities on the TCA

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