Hearts & Hands Minds

RIVERSIDE
Presbyterian Day School

Math Fact Expectations

Each year, students should build on the previous year's math fact knowledge until all four operations of math facts are available for automatic recall. Automatic recall, or mastery, is the ability to answer a math fact question within three seconds with no other strategy being used. Next school year, each grade level 1-6 will be assessed on the math facts specified and these assessments will be averaged into each student's overall math grade. Please take time to review math facts with your child this summer to ensure a smooth and successful start for their math journey in the 2017-2018 school year.

- **Rising 1st:** Identify numbers 0-30; Write numbers 0-20; Able to build number combinations 0-10 with manipulatives.

- **Rising 2nd:** Mastery/automatic recall of all addition facts 0-18, up to 9 + 9 = 18
- **Rising 3rd:** Mastery/automatic recall of subtraction facts up to 20. Students should know their 1s, 2s, 3s, 4s, 5s and 10s for multiplication facts (and know these facts fluently). *If they do not know these facts, summer practice would be extremely beneficial.
- **Rising 4th:** Mastery/Automatic recall of all multiplication facts 0-10
- **Rising 5th:** Mastery/Automatic recall of all multiplication facts 0-12, Mastery of all division facts 0-12
- **Rising 6th:** Mastery/Automatic recall of all multiplication facts 0-12, Mastery of all division facts 0-12

The main focus of class instruction is to introduce Singapore strategies for problem solving. Learning math facts, however, is a necessary part of the curriculum. The following strategies will be implemented at each grade level.

- **1st:** Addition Fact fluency worksheet will be included in weekly homework. Fact fluency games will be incorporated into math lessons.
- **2nd:** Reflex Math will be used in class to practice subtraction facts on a weekly basis. Fact practice/review should also be completed at home on a nightly basis.
- **3rd:** Reflex Math practice will be used in class to practice multiplication facts on a weekly basis. Fact practice/review should also be completed at home on a nightly basis.
- **4th:** Due to limited class time, 4th graders will not be practicing math facts during class. All fact practice/review will be completed at home.
- **5th**: Due to limited class time, 5th graders will not be practicing math facts during class time. All fact practice/review will be completed at home.
- **6th**: Due to limited class time, 6th graders will not be practicing math facts during class time. All fact practice/review will be completed at home.