

# Rising Fifth Grade

## **2018 MATH SUMMER PACKET**

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**STUART**  
COUNTRY DAY SCHOOL OF THE SACRED HEART

The key to a great start in the fall is preparation. Being prepared takes effort and discipline. Math is an active mental and physical activity that is similar to playing an instrument or a sport. Failing to practice can be like practicing to fail. Reviewing and practicing problems can help you to be better equipped for the year ahead and build confidence in math.

Your summer work will be a two-part assignment. The first part is completing the pages in this packet. The second part is in ALEKS. Please write, organize, label, and contain all your work for both assignments in a math notebook. Keep the work to show your teacher in September. Without this work you may lose points. This assignment starts after Prize Day and lasts until the first day of school (June 12-September 5, 2018). Any work you do before Prize Day does not count towards the summer work.

- The first part is practicing multiplying using the U.S. algorithm, dividing, adding and subtracting multi-digit numbers. The packet includes the types of problems you are expected to solve efficiently and accurately in September. Also, practice the multiplication and division facts so they are not forgotten.
- The second part is to LEARN (not just attempt) at least 15 ALEKS pie topics each month for June, July, and August to reinforce the concepts learned this past year. Students are working on the completion of the ALEKS pie. Regular and consistent practice is better than cramming. The student's goal is to LEARN at least 45 topics by September.
- "Assessments and Knowledge Checks" will need to be completed as they come up and will not count toward the time/topics part of your grade, this is part of the ALEKS program.
- Additionally, students should be logged on for a minimum of two hours/month (6 hours total). If a student completes less than 45 topics and less than two hours a month, the grade will be adjusted.

If a student learns 15 topics in under two hours, she should learn more topics until 2 hours have been reached. If a student has worked for 2 hours and has not reached 15 topics, she should keep working until 15 topics have been learned. Please reach out to Patty Davidovich if it is taking your child a long time to complete the 15 topics per month.

Your new teacher in the fall will apply a summer work grade in ASPEN that counts towards your first trimester grade.

If you complete your pie, you will be moved on to the next class. Please email your math teacher, Patty Davidovich, [pdavidovich@stuartschool.org](mailto:pdavidovich@stuartschool.org), over the summer if you have technical difficulties or questions about ALEKS.

PLEASE NOTE: If you anticipate difficulty completing your summer work, please contact your teacher as soon as possible. We understand there are circumstances that may prevent you from attaining your goals. Please be in communication early and let your teacher know if you have a problem. If you are a new student please contact Susan Lee at [slee@stuartschool.org](mailto:slee@stuartschool.org) to receive an ALEKS account.

## Recommended Websites and Apps for Extra Practice

### Free websites:

| Name                                 | Website  |
|--------------------------------------|--|
| Greg Tang Math                       | <a href="http://gregtangmath.com">gregtangmath.com</a>   |
| Calculation Nation                   | <a href="http://calculationnation.nctm.org/">http://calculationnation.nctm.org/</a>  |
| Illuminations                        | <a href="http://illuminations.nctm.org/">http://illuminations.nctm.org/</a>  |
| Mathbreakers                         | <a href="https://mathbreakers.com">https://mathbreakers.com</a>  |
| Addition & Subtraction Math Magician | <a href="http://www.oswego.org/ocsd-web/games/Mathmagician/mathsadd.html">http://www.oswego.org/ocsd-web/games/Mathmagician/mathsadd.html</a><br><a href="http://www.oswego.org/ocsd-web/games/Mathmagician/mathssub.html">http://www.oswego.org/ocsd-web/games/Mathmagician/mathssub.html</a> |
| Fact Monster (flashcards)            | <a href="http://www.factmonster.com/math/flashcards.html">http://www.factmonster.com/math/flashcards.html</a>  |

### Apps:

- Name that Number - Also known as Target, using addition & subtraction to reach a target number
- Cupcake
- Kakooma - addition challenges in puzzle format
- King of Math - Various types of math problems
- Baseball Multiplication - single digit multiplication
- Beat the Computer - single digit multiplication
- Thinking Blocks – Model and Solve Word Problems (multiple types)
- Divisibility – Multiplication and Division game

## Addition and Subtraction

Solve the problems below.

$$\begin{array}{r} 61,285 \\ + 23,782 \\ \hline \end{array}$$

$$\begin{array}{r} 564,291 \\ + 495,863 \\ \hline \end{array}$$

$$\begin{array}{r} 45,295 \\ - 16,179 \\ \hline \end{array}$$

$$\begin{array}{r} 230,920 \\ - 85,695 \\ \hline \end{array}$$

Add or Subtract:

$0.52 + 0.83 =$

$0.41 + 0.026 =$

$0.98 - 0.15 =$

## Addition and Subtraction

Solve the problems below.

$$\begin{array}{r} 75,392 \\ + 24,901 \\ \hline \end{array}$$

$$\begin{array}{r} 471,568 \\ + 280,455 \\ \hline \end{array}$$

$$\begin{array}{r} 45,295 \\ - 26,079 \\ \hline \end{array}$$

$$\begin{array}{r} 670,571 \\ - 243,695 \\ \hline \end{array}$$

Add or Subtract Decimals:

$0.81 + 0.79 =$

$0.97 + 0.068 =$

$12.57 - 0.85 =$

## Multiplication

Multiply using the US Algorithm:

$$\begin{array}{r} 61 \\ \times 55 \\ \hline \end{array}$$

$$\begin{array}{r} 352 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 125 \\ \times 83 \\ \hline \end{array}$$

$$\begin{array}{r} 442 \\ \times 256 \\ \hline \end{array}$$

$$\begin{array}{r} 481 \\ \times 67 \\ \hline \end{array}$$

$$\begin{array}{r} 675 \\ \times 318 \\ \hline \end{array}$$

$$\begin{array}{r} 152 \\ \times 39 \\ \hline \end{array}$$

$$\begin{array}{r} 264 \\ \times 83 \\ \hline \end{array}$$

$$\begin{array}{r} 591 \\ \times 63 \\ \hline \end{array}$$

$$\begin{array}{r} 321 \\ \times 108 \\ \hline \end{array}$$

$$\begin{array}{r} 257 \\ \times 189 \\ \hline \end{array}$$

$$\begin{array}{r} 551 \\ \times 329 \\ \hline \end{array}$$

## Division

Divide using any efficient strategy.

$$272 \div 4 =$$

$$420 \div 12 =$$

$$1,266 \div 6 =$$

$$1,518 \div 3 =$$

$$930 \div 15 =$$

$$1,575 \div 21 =$$



$424 \div 4 =$

$780 \div 12 =$

$1,080 \div 8 =$

$960 \div 32 =$

$990 \div 18 =$

$2,295 \div 51 =$