## $5^{\text {th }}$ Grade Math Parent Guide

|  | $1^{\text {st }}$ Grading Period | $2^{\text {nd }}$ Grading Period | $3^{\text {rd }}$ Grading Period | $4^{\text {th }}$ Grading Period |
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| Units/TEKS <br> Process <br> Standards <br> 5.1ABCDEFG <br> through every unit TEKS | Unit 6: Place Value with Decimals 5.2AB <br> Unit 1: Place Value and Operations <br> 5.3AB <br> Unit 7: Multiplication and Division- <br> Whole Numbers <br> 5.3ABC, 5.4AB <br> Order of Operations and Multi-Step Problems: <br> 5.4BEF | Unit 6: Addition, Subtraction, Multiplication and Division with Decimals <br> 5.2C, 5.3ADEFGK <br> Perimeter and Area <br> 5.4 H | Perimeter, Area, and Volume <br> 5.4GH, 5.6AB <br> Unit 5: 2D shapes <br> 5.5A <br> Unit 4: Fractions <br> 5.3AHIJKL; 5.4A <br> Coordinate Planes <br> 5.8ABC, 5.4CD | Measurement <br> 5.7A <br> Unit 9: Data and Graphs <br> 5.9ABC <br> Personal Financial Literacy <br> 5.10ABCDEF |
| Topic Focus | Unit 6: This unit focuses on understanding the meaning of decimal fractions and comparing decimals. <br> Unit 1: This unit develops ideas about the meaning of operations with whole numbers, the development of computational fluency, the structure of place value, and the base-ten number system, and generalizations about numbers and operations. <br> Unit 7: The mathematical focus in this unit is reasoning about equivalent expressions in multiplication and division, representing the meaning of multiplication and division, solving multiplication problems with 2-digit and 3 -digit numbers, and solving problems with two-digit divisors. <br> Order of Operations: This unit focuses on the rules of the order of operations and how to solve multi-step word problems. | Unit 6: This unit focuses on understanding the meaning of decimal fractions, comparing decimals, and adding, subtracting, multiplying, and dividing decimals. Perimeter and Area: This unit reviews how to find perimeter and area and solve word problems about perimeter and area. | Perimeter, Area, and Volume: This unit reviews how to find perimeter and area and solve word problems about perimeter and area. Volume is introduced in this unit and how to find the volume of a rectangular prism. <br> Unit 5: This unit develops ideas about the attributes of 2-D shapes and how they determine the classification of the shapes. It also delves into area, perimeter, and volume. <br> Unit 4: This unit develops ideas on the understanding the meaning of fractions, comparing fractions, and adding and subtracting fractions. <br> Coordinate Planes: This unit focuses on the key attributes of a coordinate plane, the process for graphing ordered pairs of numbers, and generating additive and multiplicative number patterns. | Measurement: This unit focuses on measurement conversions within customary and metric systems. <br> Unit 9: This unit focuses on representing, describing, summarizing, and comparing data. <br> Personal Financial Literacy: This unit focuses on taxes, income, financial records, and balancing a budget. |
| Suggestions for Parental Involvement /Support | Multiplication <br> To prepare for the standard U.S. algorithm, the partial product strategy is used by many fifth graders. This strategy emphasizes place value and multiples of ten as well as builds an understanding of how the distributive property works. <br> Partial Products | Multiplying Decimals $0.42 \times 4$ <br> Repeated addition or $\mathbf{4}$ groups of .42 $0.42+0.42+0.42+0.42$ <br> Distributive Property $\begin{gathered} (0.42 \times 2)+(0.42 \times 2) \\ 0.84+0.84 \end{gathered}$ <br> Estimate Reasonableness <br> 0.42 is close to .5 or half. Half of 4 is 2 , so I know my answer has to be less than 2. | Multiplying Fractions $\frac{1}{4} \times 12$ <br> Repeated Addition combined with the Commutative Property <br> $\frac{1}{4}$ of 12 is the same as 12 groups of $\frac{1}{4}$ <br> $\underbrace{\frac{1}{4}+\frac{1}{4}+\frac{1}{4}+\frac{1}{4}+\frac{1}{4}+\frac{1}{4}+\frac{1}{4}+\frac{1}{4}+\underbrace{\frac{1}{4}+\frac{1}{4}+\frac{1}{4}+\frac{1}{4}}}_{1 \text { whole }}$ | Stem and Leaf Plots <br> The stem and leaf plot is a method of organizing data in order of place value. The ones digit and the tens digit (or additional place values) of each data item are separated as leaves and stems. <br> Sam and his friends did the Long Jump. Here are there results in meters: $2.3,2.5,2.5,2.7,2.8,3.2,3.6,3.6,4.5,5.0$ <br> Here is the stem and leaf plot he made to |



| Arrays | 24 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 10 |  |  |  |  |
| 10 | 10 | 4 |  |  |
| 16 | $6 \times 10=60$ | $6 \times 10=60$ | $6 \times 4=24$ |  |



## Geometry Vocabulary

Polygons-Any closed 2D shape with 3 or more straight sides
Quadrilateral-Any 4-sided polygon
Parallelogram-A quadrilateral that has two pairs of sides that are equal (congruent) and parallel.
Trapezoid-A quadrilateral that as exactly one pair of parallel sides.
Rectangle-A quadrilateral with two pairs of congruent, parallel sides and four right angles A rectangle can also be called a parallelogram Square-A quadrilateral with congruent sides and four right angles. A square can also be called a parallelogram, rhombus, and rectangle.
Rhombus-A quadrilateral with four congruent sides and opposite sides are parallel.
Triangle-Any 3 sided polygon.
Equilateral triangle-all sides and angles are congruent.
Isosceles triangle-2 congruent sides and angles
Scalene triangle-no congruent sides or angles
Obtuse triangle-largest angle is greater than 90 degrees
Acute triangle- all angles are less than 90 degrees
Right triangle-largest angles is a 90 degree angle

## Coordinate Planes

Play Battleship. This is a great way to learn how to plot and name points on a coordinate plane.

