GRADE 5 Mathematics	Quarter 3 – Units 6 & 7 Reported
Standards for Mathematical Practice	
Makes sense of a problem and creates a plan to solve it	Based on teacher observations during math
Perseveres in solving problems	Based on teacher observations during math
Attends to detail using precise math words / symbols and works carefully and accurately	Based on teacher observations during math
Explains his/her mathematical thinking orally and in written form to justify why the answer makes sense	Based on teacher observations during math
Basic Facts	
Automatically recalls addition basic facts	See basic facts assessment data
Automatically recalls subtraction basic facts	
Automatically recalls multiplication basic facts	
Automatically recalls division basic facts	
Operations and Algebraic Thinking	

Writes and solves numerical expressions using the Order of Operations	**7a** **OA.2**	I can use parentheses and Order of Operations to identify or write a number sentence that matches a number story.	Put a box around the number sentence that will match this story: *Jan bought 4 cans of regular soda and three 6 packs of diet soda. How many cans does she have in all?* $\boxed{4 + (3 * 6)}$ $(4 + 3) * 6$
	7b **OA.1**	I can apply the Order of Operations to evaluate expressions with parentheses, solve number sentences, or insert parentheses to make a true number sentence.	$(15 - (3 + 2)) * 2$ $(15 - \quad 5 \quad) * 2$ $\qquad 10 \qquad * 2 \qquad = 20$ Solve parentheses. Calculate exponents. Work the problem from left to right, always multiply and divide before adding and subtracting.

Numbers and Operations in Base Ten			
Reads, writes, compares and rounds whole numbers and decimals	**7c** **NBT.3b**	I can compare decimals to the thousand<u>ths</u> place using <, >, and =.	$0.847 < 0.874$ $4.300 = 4.3$ $12.401 > 12.4$ $8.199 < 8.2$
	7d **NBT.3a**	I can write whole numbers and decimals in expanded notation.	$\boxed{100\ \|\ 10\ \|\ 1\ \|\ \frac{1}{10}\ \|\ \frac{1}{100}\ \|\ \frac{1}{1000}}$ 5 4 3 . 7 2 $543.72 = 500 + 40 + 3 + 0.7 + 0.02$ $543.72 = (5 \times 100) + (4 \times 10) + (3 \times 1) + (7 \times \frac{1}{10}) + (2 \times \frac{1}{100})$
	7e **NBT.1**	I can represent and rename powers of 10 and demonstrate that I understand that each place value space is 10 times greater than the place to its right and 1/10th of the place to its left.	$\begin{array}{\|c\|c\|c\|c\|c\|c\|c\|} \hline 10^3 & 10^2 & 10^1 & 10^0 & 10^{-1} & 10^{-2} & 10^{-3} \\ \hline 1000 & 100 & 10 & 1 & \frac{1}{10} & \frac{1}{100} & \frac{1}{1000} \\ \hline \end{array}$ $10^4 = (10*10*10*10) = 10{,}000$ $10^{-2} = (\frac{1}{10} * \frac{1}{10}) = \frac{1}{100} = 0.01$
Number and Operations – Fractions			
Adds fractions and mixed numbers with unlike denominators	**6c** **NF.1**	I can add and subtract fractions with <u>unlike</u> denominators, including those in number stories, and simplify my answers to lowest terms.	*Tim ate $\frac{8}{9}$ of a pizza. Greg at $\frac{2}{3}$ of a pizza. How much more pizza did Tim eat than Greg?* $\dfrac{8}{9} - \dfrac{2}{3} = \dfrac{8}{9} - \dfrac{6}{9} = \dfrac{2}{9}$
Subtracts fractions and mixed numbers with unlike denominators	**6c** **NF.1**	I can add and subtract fractions with <u>unlike</u> denominators, including those in number stories, and simplify my answers to lowest terms.	*Tim ate $\frac{8}{9}$ of a pizza. Greg at $\frac{2}{3}$ of a pizza. How much more pizza did Tim eat than Greg?* $\dfrac{8}{9} - \dfrac{2}{3} = \dfrac{8}{9} - \dfrac{6}{9} = \dfrac{2}{9}$

Measurement and Data			
Converts measurements within the US Customary and Metric systems	**7f MD.1**	I can convert measurements within the metric system to find equivalent amounts, including those in multi-step number stories.	10^3 10^2 10^1 10^0 10^{-1} 10^{-2} 10^{-3} **km hm dam m dm cm mm** 4.3 m = __430__ cm 0.5 km = __500__ m Alison has 5m of ribbon and needs 25 cm of ribbon to wrap each gift. How many gifts can she wrap? 5m = 500 cm $500 \div 25 = 20$ gifts
	7g MD.1 prep	I can multiply a whole number or decimal by a positive power of 10.	$4 * 10^2 = 400$ $3.82 * 10^3 = 3{,}820$