<u>Big Idea(s)</u>	<u>Concept(s)</u>	<u>Competencies</u>	Essential Questions
Numerical quantities, calculations, and measurements can be estimated or analyzed by using appropriate strategies and tools. Numerical quantities, calculations, and measurements can be estimated or analyzed by using appropriate strategies and tools. Mathematical relationships among numbers can be represented, compared, and communicated.	 Students will know: Decimal operations Percentages Long division Box plots Algebraic expressions (order of operations) 	 Students will be able to: Evaluate decimals using all 4 operations. Calculate and convert between percentage, fractions and decimals Evaluate problems using long division Analyze and create box plots using data Solve expressions by applying the correct order of operations 	What does it mean to estimate or analyze numerical quantities? What does it mean to estimate or analyze numerical quantities? How are relationships represented mathematically?

Topic Decimals Decimal Place Value Decimal Operations	Approx. # of weeks - % of <u>time</u> 2 weeks	PA Academic Standards CC.2.1.6.E.2 Identify and choose appropriate processes to compute fluently with multi-digit numbers.	Assessment Anchors & Eligible Content M06.A-N.2.1.1 Solve problems involving operations (+, –, ×, and ÷) with whole numbers, decimals (through thousandths), straight computation, or word problems.
Topic Long Division Division of Whole Numbers Division with Decimals	Approx. # of weeks 2 weeks	PA Academic Standards CC.2.1.6.E.2 Identify and choose appropriate processes to compute fluently with multi-digit numbers	Assessment Anchors & Eligible Content M06.A-N.2.1.1 Solve problems involving operations (+, –, ×, and ÷) with whole numbers, decimals (through thousandths), straight computation, or word problems.

Topic	Approx. # of weeks	PA Academic Standards	Assessment Anchors & Eligible Content
Percentages Percentages of a whole number Convert fraction, decimal, percents	2 week	CC.2.1.6.D.1 Understand ratio concepts and use ratio reasoning to solve problems.	M06.A-R.1.1.5 Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percentage.
<u>Topic</u>	<u>Approx. # of weeks</u>	PA Academic Standards	Assessment Anchors & Eligible Content
Box Plots Create Read and Analyze	1 week	CC.2.4.6.B.1 Demonstrate an understanding of statistical variability by displaying, analyzing, and summarizing distributions.	M06.D-S.1.1.1 Display numerical data in plots on a number line, including line plots, histograms, and box-and-whisker plots. M06.D-S.1.1.2 Determine quantitative measures of center (e.g. median, mean, mode) and variability (e.g. range, interquartile range, mean absolute deviation) M06.D-S.1.1.3 Describe any overall pattern and any deviations from the overall pattern with reference to the context in which the data were gathered. M06.D-S.1.1.4 Relate the choice of measures of center

			and variability to the shape of the data distribution and the context in which the data were gathered.
<u>Topic</u>	<u>Approx. # of weeks</u>	PA Academic Standards	Assessment Anchors & Eligible Content
Algebraic Expressions: Order of Operations Unknown Quantities (Variables) Expressions and Equations Distributive Property	2 weeks	CC.2.2.6.B.1 Apply and extend previous understandings of arithmetic to algebraic expressions.	M06.B-E.1.1.1 Write and evaluate numerical expressions involving whole-number exponents. M06.B-E.1.1.2 Write algebraic expressions from verbal descriptions. Example: Express the description "five less than twice a number" as $2y - 5$. M06.B-E.1.1.3 Identify parts of an expression using mathematical terms (e.g., sum, term, product, factor, quotient, coefficient, quantity). Example: Describe the expression 2(8 + 7) as a product of two factors. M06.B-E.1.1.4 Evaluate expressions at specific values of their variables, including expressions that arise from formulas used in real-world problems. Example: Evaluate the expression b2 – 5 when b = 4. M06.B-E.1.1.5 Apply the properties of operations to

			 1: Apply the distributive property to the expression 3 (2 + x) to produce the equivalent expression 6 + 3x. Example 2: Apply the distributive property to the expression 24x + 18y to produce the equivalent expression 6(4x + 3y). Example 3: Apply properties of operations to y + y + y to produce the equivalent expression 3y.
Standards Legend: Esse	ntial Important	Supplementary	