



5th Grade Math



1st Six Weeks

- Place Value of whole numbers & decimals
- Comparing and ordering decimals
- Use mental math strategies to add & sub
- Estimate sums & differences using rounding
- Use compatible numbers to estimate
- Add & subtract whole numbers
- Add & subtract decimals
- Solve multi-step problems

2nd Six Weeks

- Estimate products
- Multiply 3 digit by 2 digit numbers
- Multiply with 0's
- Multiply multi-digit numbers
- Multiply decimals by 10, 100, or 1,000
- Estimate the product of decimal & whole num.
- Use models to multiply decimal & whole num.
- Multiplying decimals and whole numbers
- Multiply decimal by a decimal
- Solve problems using strip diag & equation
- Dividing by multiples of 10
- Divide by 2 digit divisors
- Dividing decimals by whole numbers

3rd Six Weeks

- Dividing decimals by 2 digit whole numbers
- Dividing decimals by decimals
- Prime & Composite numbers
- Equivalent fractions & reducing fractions
- Finding common denominators
- Add & sub fractions w/unlike denominators
- Improper fractions & mixed numbers
- Adding & subtracting mixed numbers

4th Six Weeks

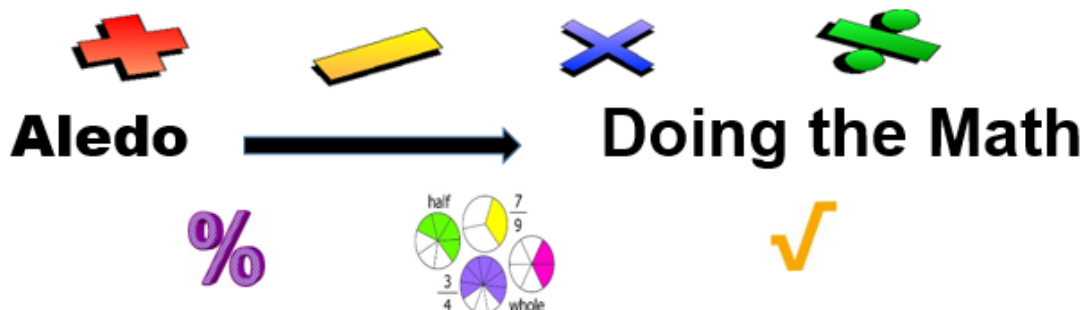
- Multiplying & dividing fractions
- Order of operations
- Simplifying expressions
- Finding a rule & writing expressions
- Solving equations
- Graphing additive & multiplicative patterns
- Graphing equations on a coordinate plane
- Classifying triangles using attributes
- Classifying quadrilaterals
- Perimeter of polygons
- Area of squares & rectangles
- Area of composite shapes
- Volume w/ models & developing a formula
- Finding Volume of 3-D shapes & composite figures

5th Six Weeks

- Convert customary units of length, capacity & weight
- Convert metric units
- Solving problems using Dot Plots, Bar Graphs, Stem & Leaf Plots, and Scatter Plots
- Make all the graphs above
- Understanding similarities & differences income tax, payroll tax, sales tax, & property tax
- Explaining difference in gross & net income
- Find steps to take if expenses exceed income
- Balance a simple budget
- Review 5th Grade TEKS

6th Six Weeks

- PBL activities



5th Grade Strategies

Strip Diagram:

Total cost
\$15 shirt | \$19 shorts

$$15 + 19 = ?$$

102 pounds
6 lbs | ?

$$102 - 6 = ?$$

\$40 total cost
8 →

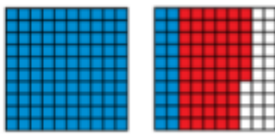
$$40 \div 8 = ? \text{ or } 8 \times ? = 40$$

60 (5 times as many)
? ? ? ? ?

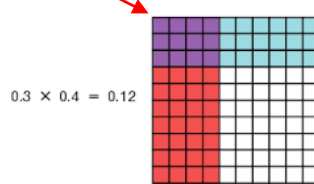
$$60 \div 5 = ? \text{ or } 5 \times ? = 60$$

Hundredth Grids:

$$1.2 + 0.56$$



answer →



$$0.3 \times 0.4 = 0.12$$

Make a table, find pattern:

Apples	16	32	48	64
Green apples	4	8	12	?

Mental Math:

Break apart Addition:

$$25 + 14 = 25 + (10 + 4) \text{ or } (20 + 5) + (10 + 4) \text{ or } 69 + 25 = 70 + 24$$

$$= (25 + 10) + 4 \quad (20 + 10) + (5 + 4) \quad = 94$$

$$= 35 + 4 \quad 30 + 9$$

$$= 39 \quad 39$$

Break apart Multiplication:

$$8 \times 532 = 8 \times (500 + 30 + 2)$$

$$= 4000 + 240 + 16$$

Properties:

Commutative Property - order

$$5 + 7 = 7 + 5$$

$$5 \times 6 = 6 \times 5$$

Identity Property -

$$5 + 0 = 5$$

$$1 \times 8 = 8$$

Zero Property of Multiplication -

$$10 \times 0 = 0$$

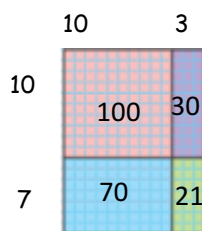
Associative Property -

$$(3 \times 7) \times 4 = 3 \times (7 \times 4)$$

Distributive Property -

$$7 \times (5 + 2) = (7 \times 5) + (7 \times 2)$$

Array Multiplication



$$13 \times 17 = 100 + 30 + 70 + 21$$

Draw a picture:



Perimeter 26 ft

?