



4th Grade Math



1st Six Weeks

- Use strategies to add & subtract whole #'s
- Rounding & estimating addition & subtraction
- Use standard algorithm to add & subtract
- Model adding & subtracting w/ decimals
- Add & subtract decimals w/ standard algorithm
- Use strip diagrams to solve word problems
- Expanded form of numbers through 1 billion
- Place value relationships (10 times greater)
- Use money to introduce decimals
- Relate decimals to fractions
- Find decimals to represent a point on a # line

4th Six Weeks

- Solving expressions & equations
- Generate rules for input output tables
- Generate tables given a rule
- Find equivalent, reduce & compare fractions
- Add & subtract fractions on a number line
- Add & subtract fractions w/like denominators
- Choose appropriate measures, length, capacity & weight customary & metric systems
- Convert customary & metric measurements
- Compare & convert units of time

2nd Six Weeks

- Comparing & ordering decimals
- Writing to explain problem solving
- Multiplication Properties: (commutative, zero, identity, associative)
- Multiply by 10 & 100 & multiples of 10 & 100
- Strategies to mult. 4 digit by 1 & 2 digit by 2
- Using standard algorithm to multiply
- Strip diagrams & equations for multiplication
- Using arrays to multiply 2 digit numbers
- Rounding to estimate multiplication

5th Six Weeks

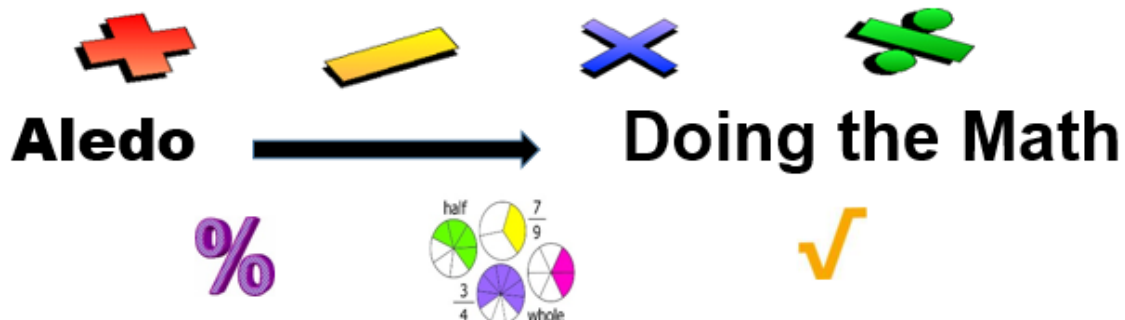
- Find perimeter & area of rectangles & squares
- Solve problems w/length, mass, liquid volume, time, money & angles
- Name & draw geometric terms
- Find angle measures in circles, measure angles
- Classify triangles & quadrilaterals
- Create and solve problems using dot plots, stem & leaf plots & frequency tables
- Compare various savings options
- Distinguish between fixed & variable expenses

3rd Six Weeks

- Compatible numbers to estimate multiplication
- Represent 2 digit multiplication w/ arrays
- Multiply 2 digit #'s using standard algorithm
- Explore perfect squares up to 15 x 15
- Mental math & estimation to divide
- Understanding remainders
- Strip diagrams & equations for division
- Division strategies & standard algorithm

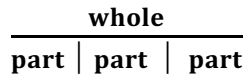
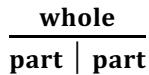
6th Six Weeks

- Describe the purpose of financial institutions
- Calculate profit
- Review all 4th Grade TEKS
- PBL activities
- Estimating products of decimal & whole #
- Add & Subtract fractions w/unlike denominator
- Multiplying fractions & whole numbers

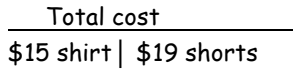


4th Grade Strategies

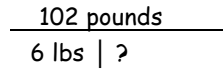
Strip Diagram:



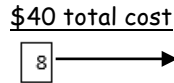
3 times as many



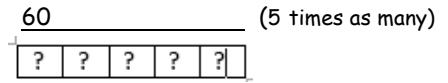
$15 + 19 = ?$



$102 - 6 = ?$



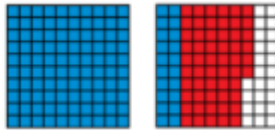
$40 \div 8 = ? \text{ or } 8 \times ? = 40$



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

Hundredth Grids:

$1.2 + 0.56$



Make a table, find pattern:

Apples	16	32	48	64
Green apples	4	8	12	?

Mental Math:

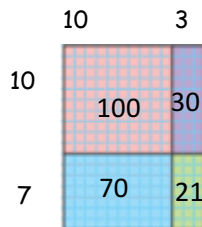
Break apart Addition:

$$\begin{aligned} 25 + 14 &= 25 + (10 + 4) \quad \text{or} \quad (20 + 5) + (10 + 4) \quad \text{or} \quad 69 + 25 = 70 + 24 \\ &= (25 + 10) + 4 \quad (20 + 10) + (5 + 4) \quad = 94 \\ &= 35 + 4 \quad 30 + 9 \\ &= 39 \quad 39 \end{aligned}$$

Break apart Multiplication:

$$\begin{aligned} 8 \times 532 &= 8 \times (500 + 30 + 2) \\ &= 4000 + 240 + 16 \end{aligned}$$

Array Multiplication



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

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 -

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

Draw a picture:



Perimeter 26 ft

?