

ROUNDING
1. Nearest 10 (100, 1000)
2. Next 10 (100, 1000)
3. Closer ?
4. Middle → round up

Even numbers makes pairs
Odd numbers have one left over

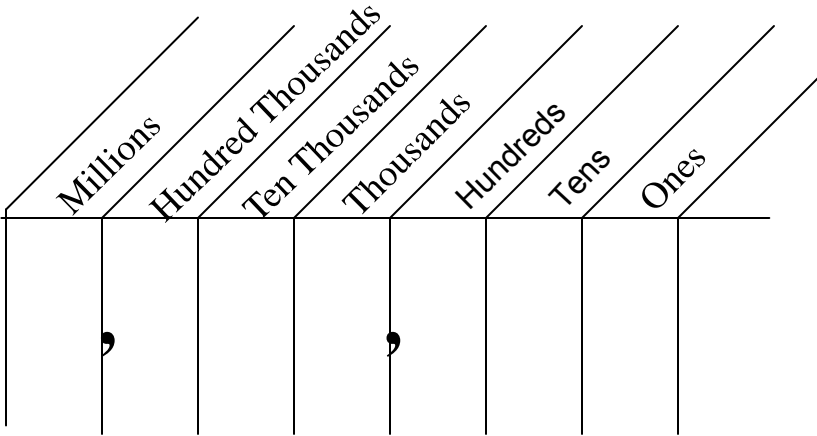
- PROBLEM SOLVING STRAGIES**
- Draw a picture
 - Make a table or chart
 - Act it out
 - Guess and check
 - Make a list
 - Choose +, -, x, ÷

- Estimate**
- About how many
 - Not exact
 - Good guess

- Elapsed Time**
1. Make clock face
 2. Start at beginning time
 3. Count on until ending time
- What time did you stop at?
 Hint: Does your answer make sense?

Patterns, Relations, Algebra			
> Greater than >	< Less than <	= Equal =	
		balanced on both sides	
A symbol (o, Δ, □, n, a...) will always stand for the same number in the same problem.			
Input/output	Guess my 'Rule'	Function - machine	T - Charts

Grade 3 MCAS



Good Luck!!! 😊

Attributes of Shapes			
Sides Number of sides? Equal sides? Unequal sides? Parallel? Perpendicular?	Angles Number of angles? Equal angles? Unequal angles? Right? Acute? Obtuse?	Solids Edges Number of? Equal or unequal? Parallel sets? Perpendicular sets?	Vertices Number of? Faces Number of shape? Square, circle, triangle

Units of Measure (Hint: Label your answer)						
second	inch	centimeter	cup	milliliter	ounce	gram
minute	foot	kilometer	pint	liter	pound	kilogram
hour	yard		quart		ton	
	mile		gallon			

<u>Word Bank</u>			
symmetrical	point	Line segment	ray
Line of symmetry	End points	Parallel lines	vertex
diagonal	line	Intersecting lines	angle
		Perpendicular lines	

Number Sense		
Standard	Expanded	Word
1. Write the number using numerals	1. Write the number as you see it followed by = 2. Write what the digit stands for 3. Put a plus sign between numbers you wrote Hint: you can add the value of the digits to get the number	1. Write the word you say as you read the number

KEY WORDS

ADDITION

Vocabulary Problem solving words

addend total
 sum In all
 plus altogether

* make number line

SUBTRACTION

Vocabulary Problem solving words

minus difference
 difference how many more
 How much farther, greater,
 etc.
 Less
 Left

* make number line

MULTIPLICATION

Vocabulary Problem solving words

array In all
 factor altogether
 product each
 multiple (skip count) times
 repeated addition total

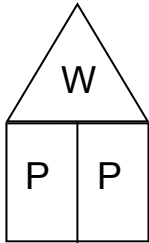
Number of groups

Number in each group

* use multiplication chart

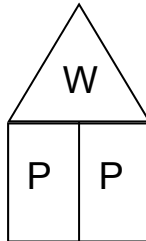
FACT FAMILIES

Addition/Subtraction



$$\begin{array}{r} _ + _ = _ \\ _ + _ = _ \\ _ - _ = _ \\ _ - _ = _ \end{array}$$

Multiplication/Division



$$\begin{array}{r} _ \times _ = _ \\ _ \times _ = _ \\ _ \div _ = _ \end{array}$$

Steps

Addition

- Line up columns
- Use graph paper
- 1. start with ones
- 2. regroup
 - Put down ones
 - Put up tens

Subtraction

- Line up columns
- Use graph paper
- 1. start with ones
- 2. regroup
 - Cross out tens and make it one less
 - Write one in the ones place
- *Hint:
 - Zeros on top
 - Knock on that door
 - Is anybody home

Multiplication

- Line up columns
- Use graph paper
- 1. start with ones
- 2. regroup
 - Put down the ones
 - Put up regrouped tens
- 3. now multiply the tens
 - First multiply
 - Then add the number from the top

DIVISION

Vocabulary Problem solving words

quotient How many per
 How many each

Number of groups

Number in each group

* use multiplication chart