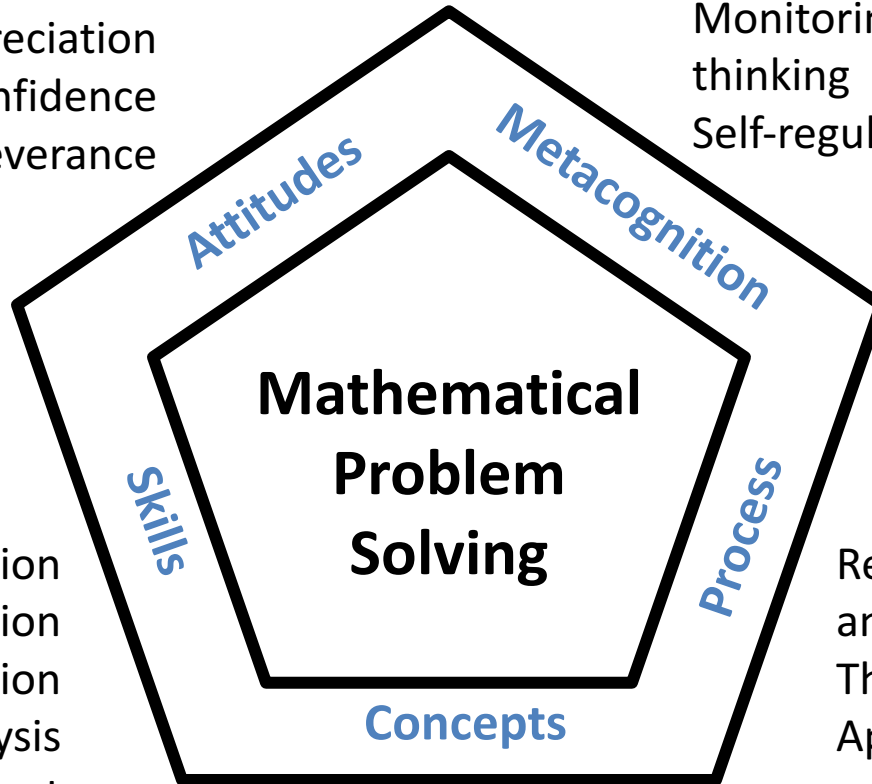


# Singapore Mathematics Framework

Beliefs  
Interest  
Appreciation  
Confidence  
Perseverance

Monitoring of one's own thinking  
Self-regulation of learning



Numerical calculation  
Algebraic manipulation  
Spatial visualization  
Data analysis  
Measurement  
Use of mathematical tools  
Estimation

Reasoning, communication and concepts  
Thinking skills and heuristics  
Applications and modeling

Numerical  
Algebraic  
Geometrical  
Statistical  
Probabilistic  
Analytical

# Number Bonds

“make 10” and “make 20”

a)  $8+5=$

b)  $18+5=$

c)  $88+5=$

d)  $6+9=$

e)  $16+9=$

f)  $76+9=$

# Number Bonds

## Grade Level Examples

2<sup>nd</sup>-     $26+8=$                        $38+7=$

3<sup>rd</sup>-     $196+7=$                        $188+9=$

4<sup>th</sup>-     $2368+29=$                        $4827+46=$

# Number Bonds

Units of Measure

1.  $13\text{oz} + 5\text{oz} =$

$9\text{oz} + 10\text{oz} =$

2.  $11\text{in} + 9\text{in} =$

$6\text{in} + 8\text{in} =$



# Number Bonds

Improper Fractions to Mixed Numbers

1.

$$\frac{4}{8} + \frac{7}{8} =$$

$$\frac{3}{5} + \frac{4}{5} =$$

2.

$$\frac{6}{9} + \frac{5}{9} =$$

$$\frac{4}{7} + \frac{5}{7} =$$

# Number Bonds

## Number Bonds and Subtraction

a)  $46-8=$

b)  $17-8=$

c)  $42-7=$

# Place Value

Distributive Property

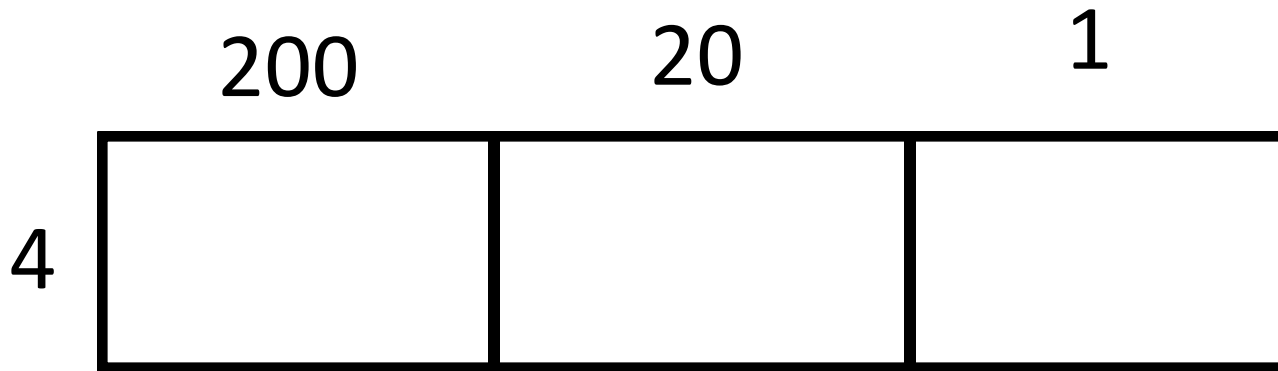
$$3 \times 213$$





# Place Value

Calculating  $4 \times 221$  Using the Area Model



# Place Value

Calculating  $3 \times 423$  Using the Area Model

