How to help your child learns Arithmetic ?

Prepared by Dr Indumati Rao for families with children with special needs

Use natural materials If needed use Taylor frame ,Abacus,Braille ,Large print work sheets

- Some Children can see
- Some children may have difficulty in seeing
- Some may need more time
- Some may have difficulty to hear
- Some have difficulty in holding objects
- The above a lot more are known as special needs

Simple guidelines
Use tamarind,rajma ,sticks and do not use multicolor ,multi color shapes as it confuses the child in the early years of childhood
The materials should have common physical property when we use in Maths .Only when a child acquires all concepts fully well we can use multi colors material for consolidation

- A child must know quantalities(More /less /equal)
- A child must know big and small
- Long and short
- Shallow and deep
- Tall and short
- Shapes
- Serialization-I,II,III,IV
- Numbers-1,2,3,4,5,6,7,8,9
- Decimals 0,10,100,1000
- Addition
- Subtraction
- Multiplication
- Division

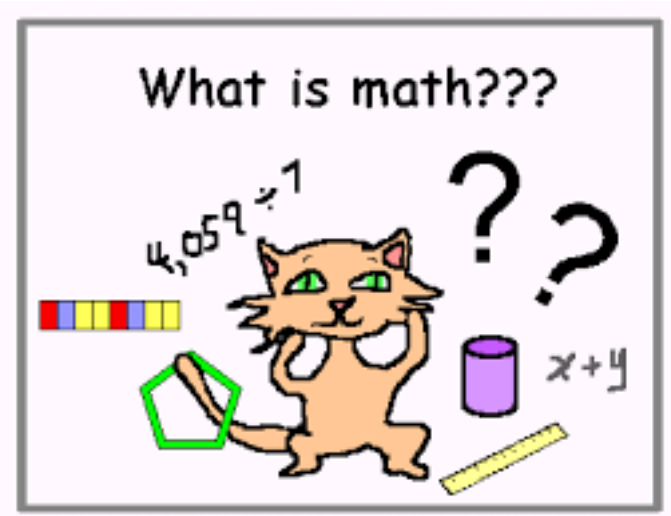
Common guidelines

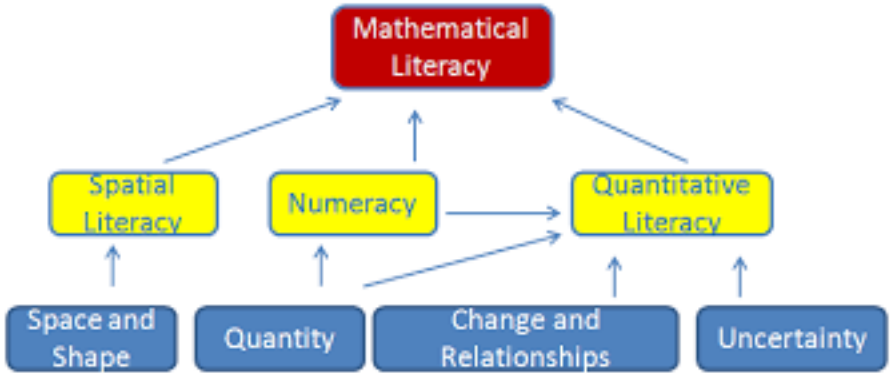
- Break each activity to several easy small steps -1-10 steps .Teach one step at time
- Always do it when child is observing and then ask the child "Do it".Do not use different commands and do not add any extra words.
- Always appreciate when the child makes and attempt. Say good girl or good boy.Do not clap or scream to show your joy.
- Always help the child using 3 steps-1.Show the activity and say do it –2.Help with gestural clues to help without speaking 3.Hold the hand of the child gently and you do the activity.But always appreciate when the step is completed to say good girl or good boy or well done
- If a child refuses to do –just wind up the activity without saying anything to the child. Present the same activity after 10 mts

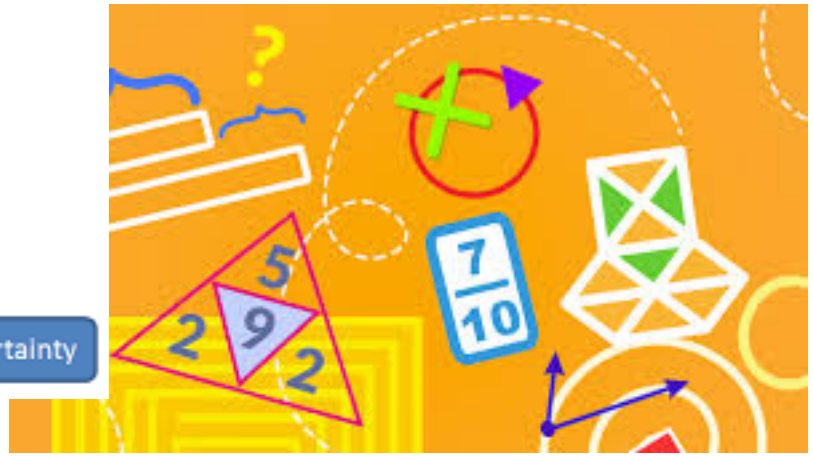
Fundamentals

Why is Maths important?

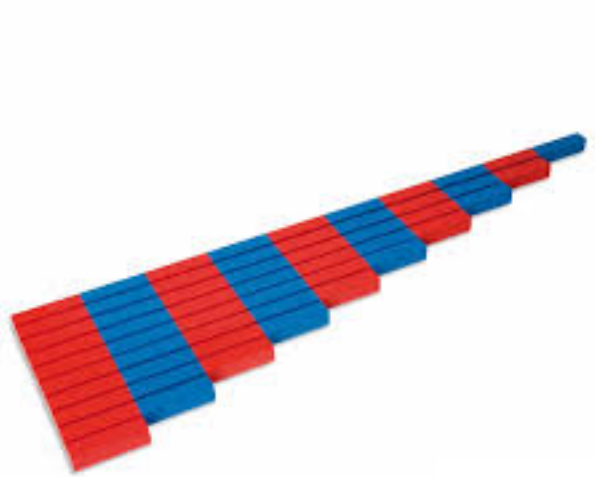
- It describes the relationships of abstract, symbolic concepts
- It provides a good description of the physical universe
- It is at the heart of all scientific and technical development
- Every idea in mathematics results from an attempt to solve some problem







Learning numbers
Take wooden sticks and cut them from 1 inch



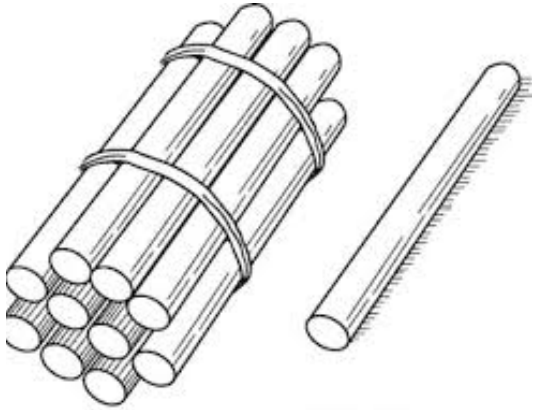


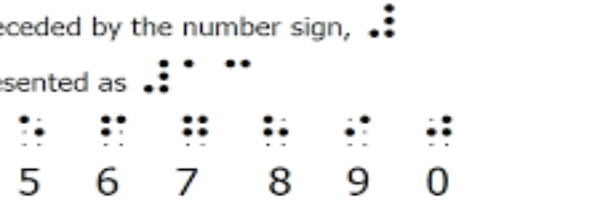


Counting and associating with symbols take pencils/sticks/tamarind seeds but ensure they are same color and size



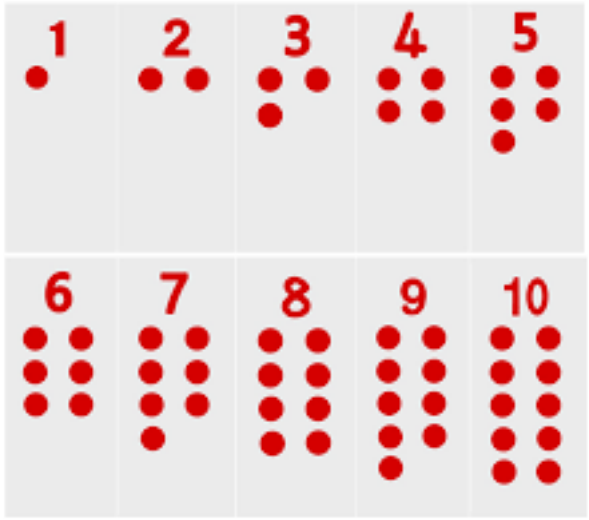








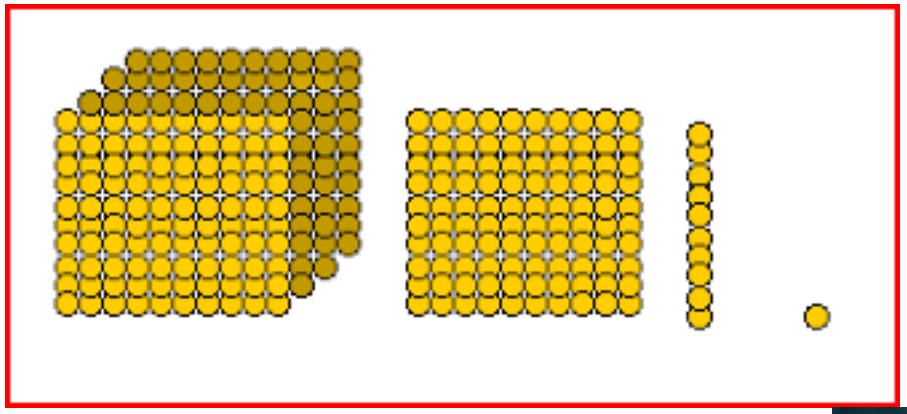


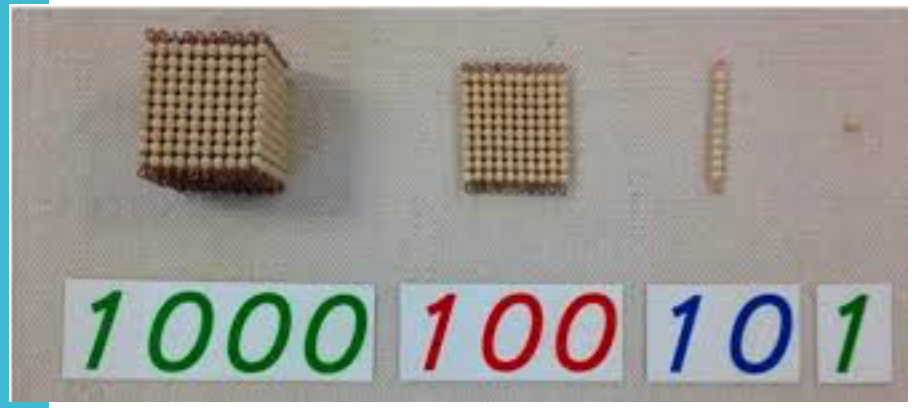


Learn odd and even numbers



Decimal system

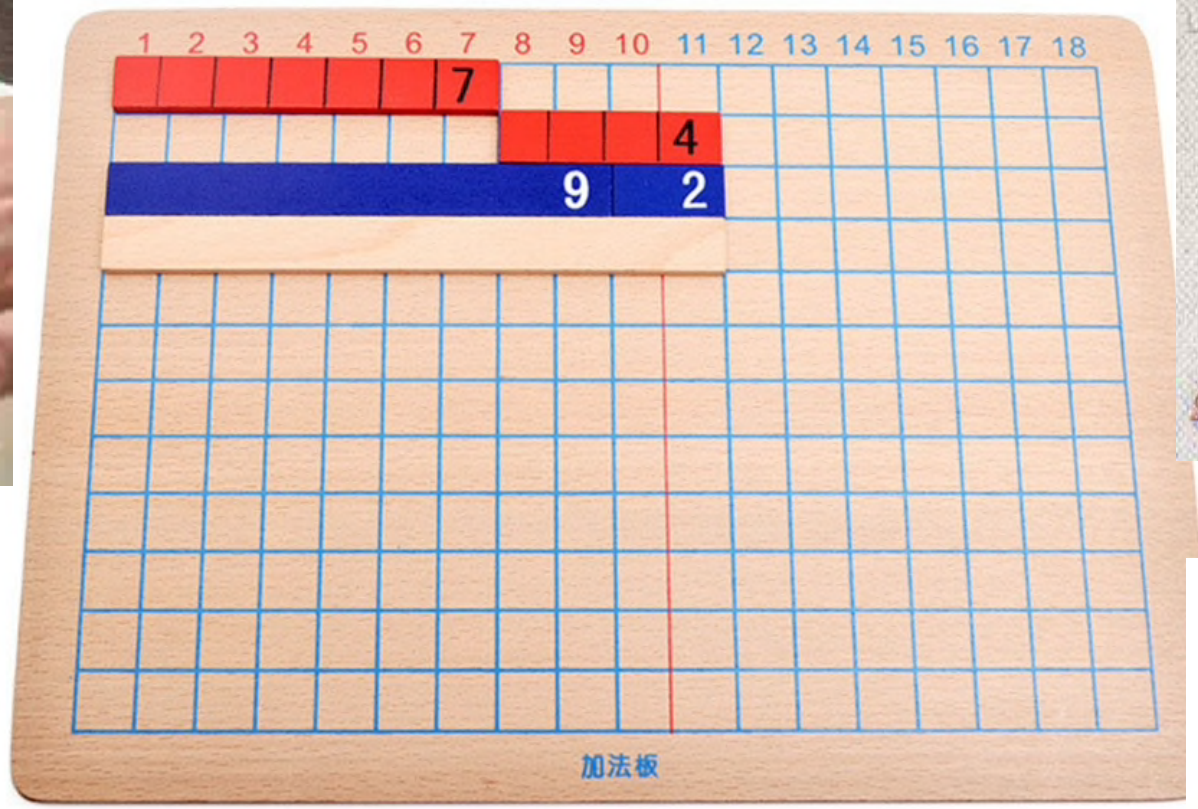


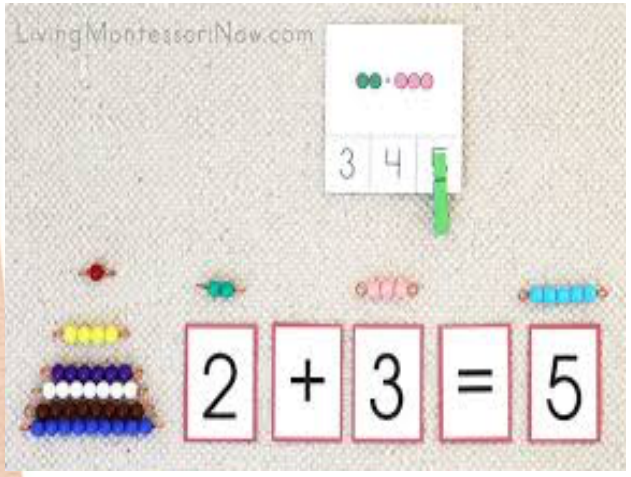






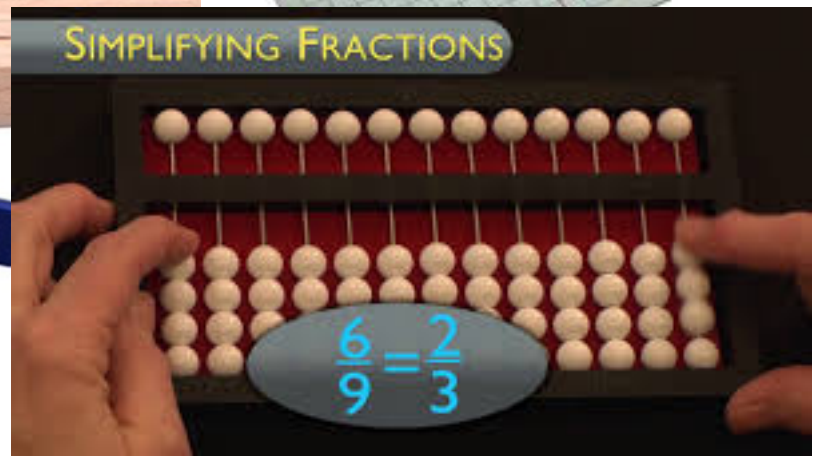
Learn to add


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
7
4
9
2
加法板

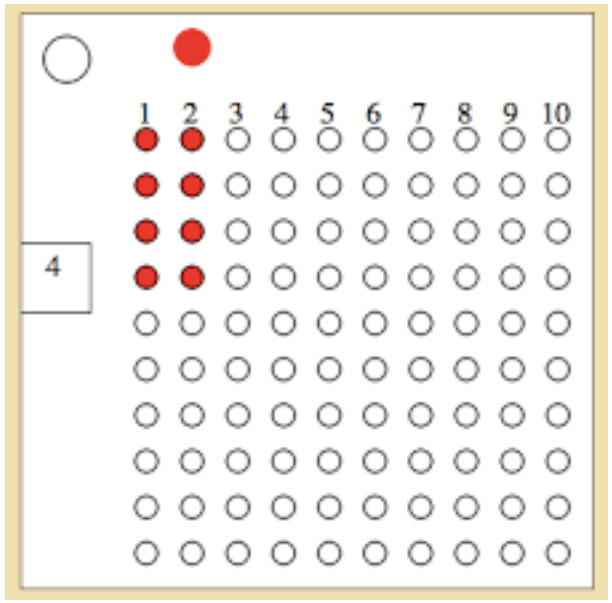

LivingMontessoriNow.com
3 4 5
2 + 3 = 5

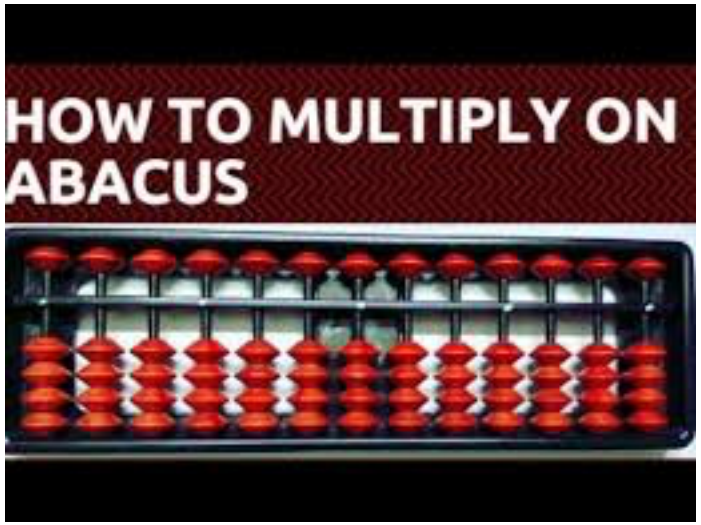



1+1=2
2+1=3
1+2=3
2+2=4
1+3=4
2+3=5
1+4=5
2+4=6
1+5=6
2+5=7
1+6=7
2+6=8
1+7=8
2+7=9
1+8=9
2+8=10
1+9=10
2+9=11
3+9=12
6
3


SIMPLIFYING FRACTIONS
6/9=2/3

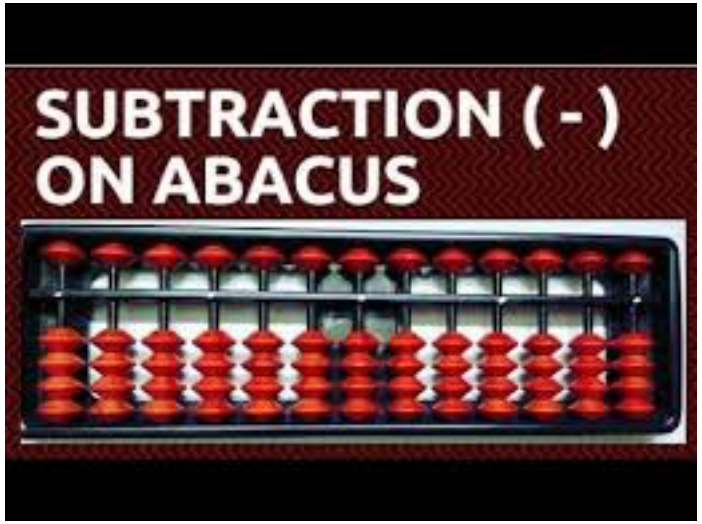
Learning to Multiply



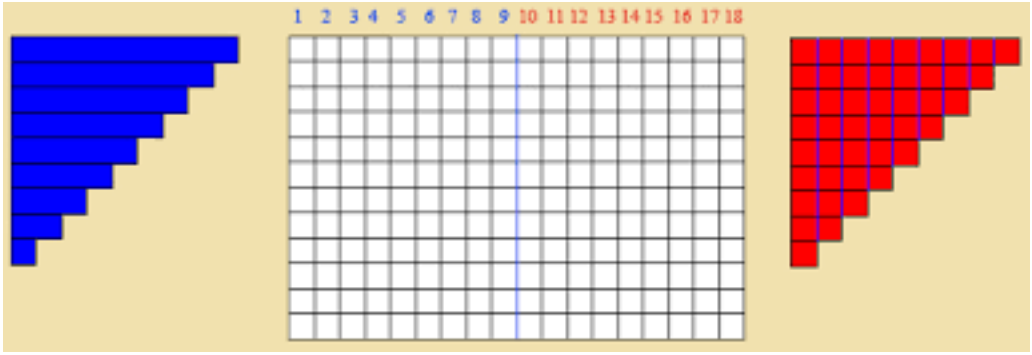


Learning to subtract

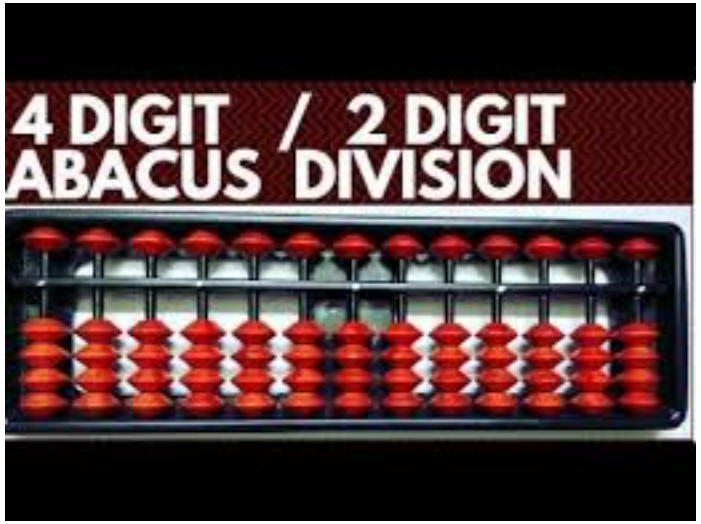


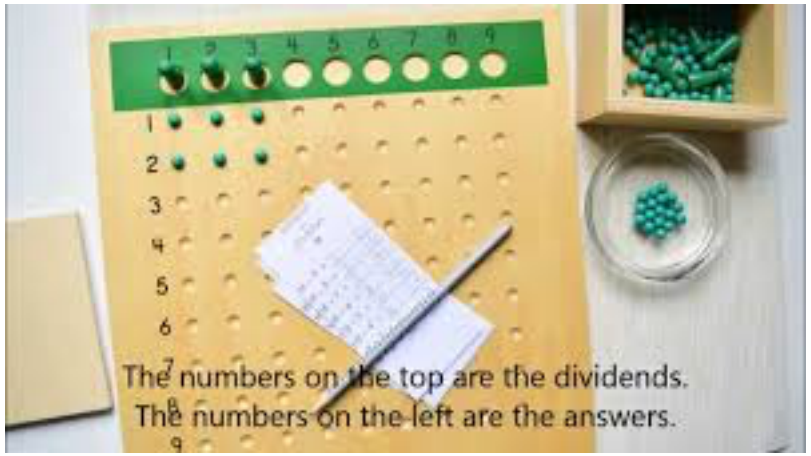






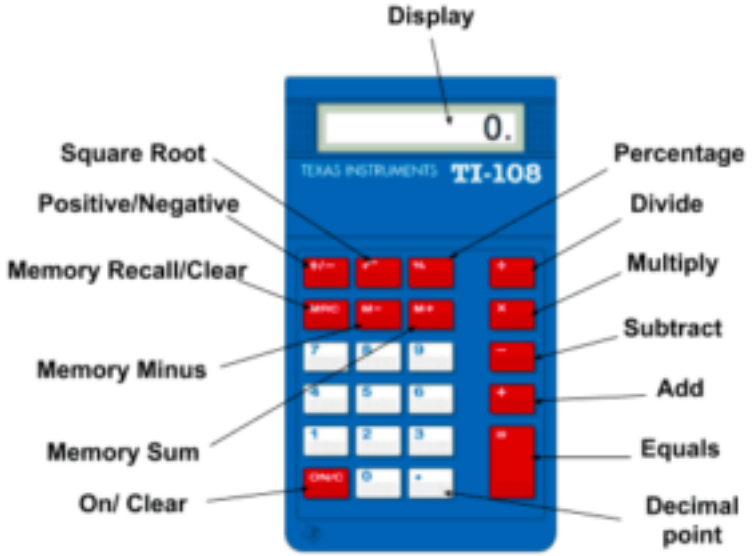
Learn to divide



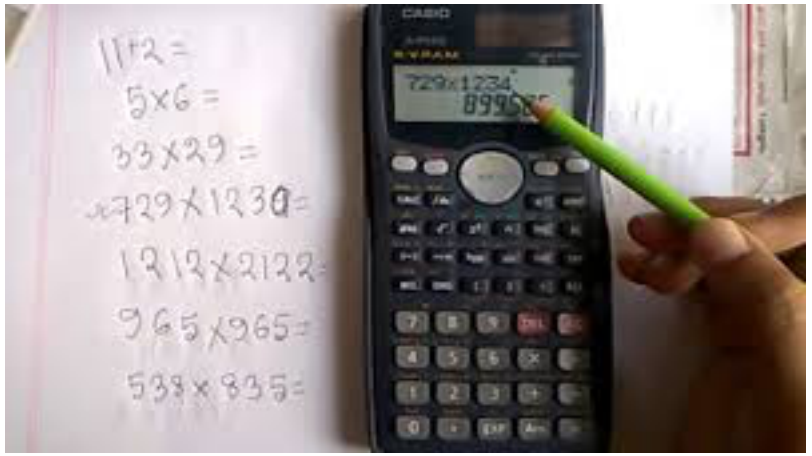


How to use calculator?









Weight/Count /measures

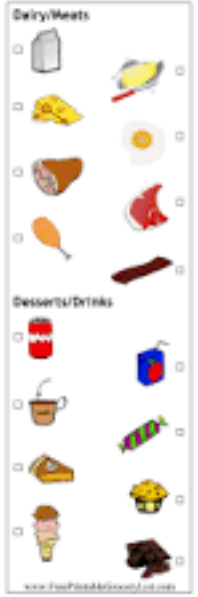












Purchase and pay money









Mobile phone use discipline









Do NOT keep your phone on charging when you are sleeping.



Do NOT watch mobile screen for long hours as it affects your eyes, brain and sleep.

Sort and count







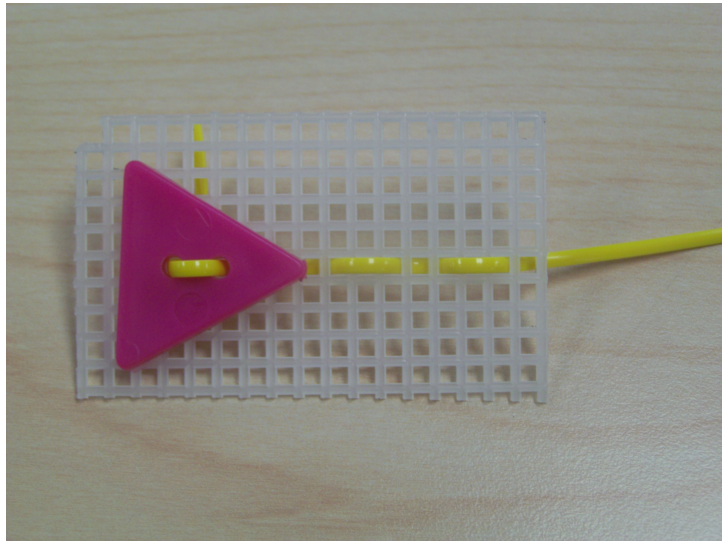
Tot School
SORT & COUNT
BOTTLES



Sort & Count
Bottles!

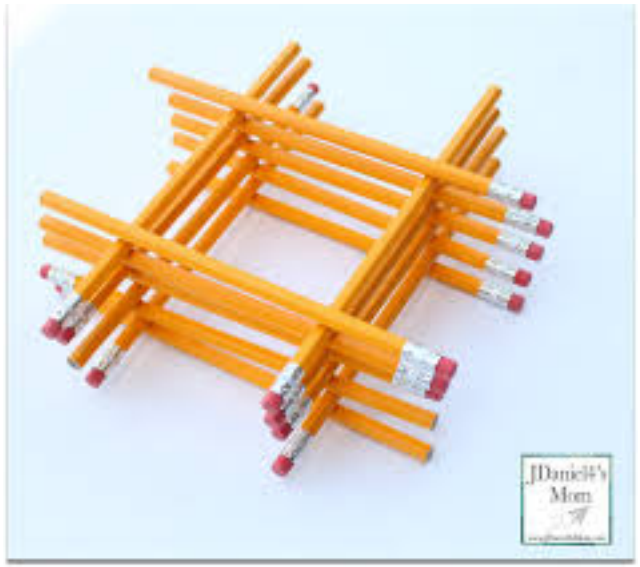


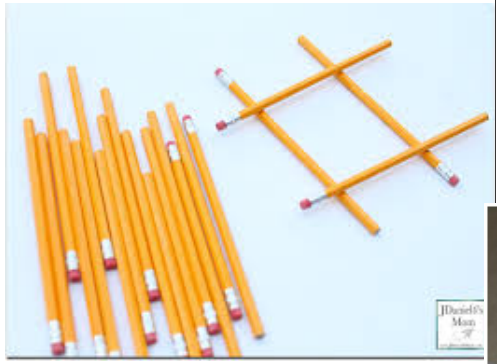
Count and create



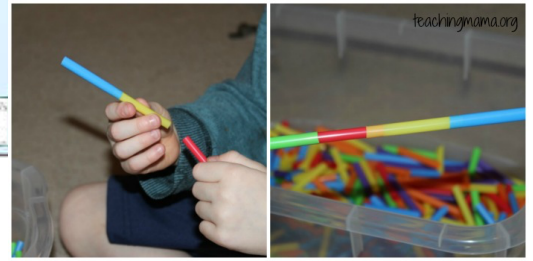












Identify shape and create

