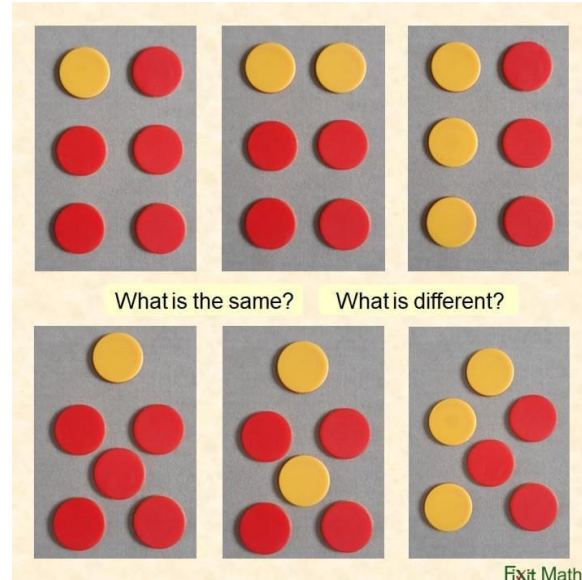
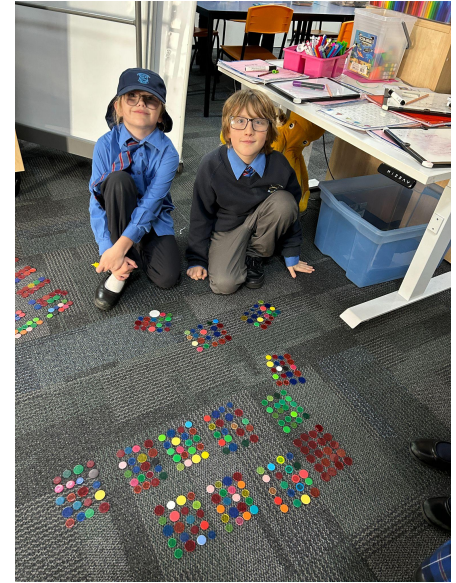


Maths Cafe No. 1

St Joseph's Bulli

28/8/2024



Maths is Everywhere!



FLASH SALE
10% OFF
STOREWIDE
 TODAY ONLY - THURSDAY 13TH DECEMBER

1/2 Price
\$13
 WAS \$26 SAVE \$13
 Omo 3 in 1 Capsules
 Active 28pack
 1205
 500 544 4 83
 1 7508
 10.46 per ea



4 X 4 = 16

3 X 6 = 18

4 X 2 = 8

1 whole $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{8}$

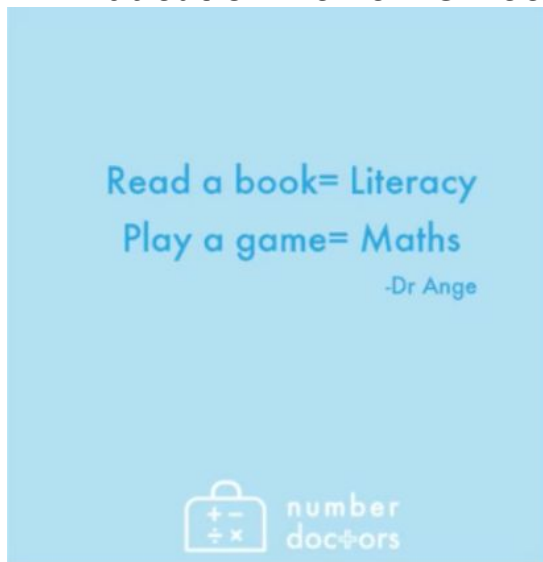
$\frac{3}{4}$ = = =

$\frac{1}{4} + \frac{3}{4} = \frac{4}{4} = 1 \text{ whole}$



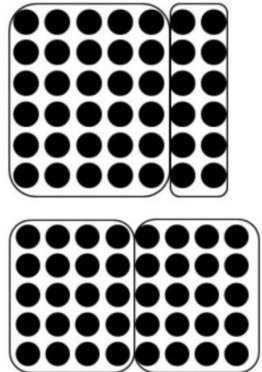
Parental engagement has a positive impact on average of 4 months' additional progress.

Education Review Office in New Zealand



How Is Maths Being Taught?

- Maths teaching has changed!
- New Syllabus- Working Mathematically: communicating problem solving and reasoning, solid understanding and fluency in Maths
- Flexibility with numbers
- Estimation and solving a problem multiple ways rather than multiple problems one way
- Making connections between concepts and the real world
- Concrete, pictorial, abstract. K-6 and beyond if necessary.
- Deep understanding VS speed
- Mental computation before the algorithm



Think back to when you learned to multiply? What do you recall?

- Current practise

Example(s):



Think back to when you learned to multiply? What do you recall?

- Current practise

Two groups of three.



Think back to when you learned to multiply? What do you recall?

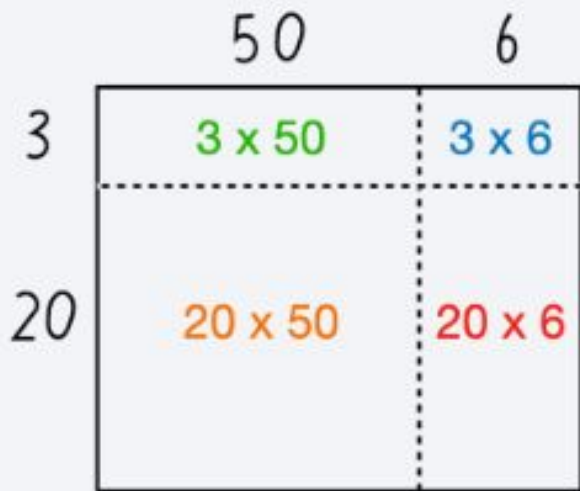
- Current practise

● ● ● ●	3 rows of 4 is 12	$3 \times 4 = 12$
● ● ● ●	4 columns of 3 is 12	$4 \times 3 = 12$
● ● ● ●	12 shared into 3 rows is 4	$12 \div 3 = 4$
	12 shared into 4 columns is 3	$12 \div 4 = 3$

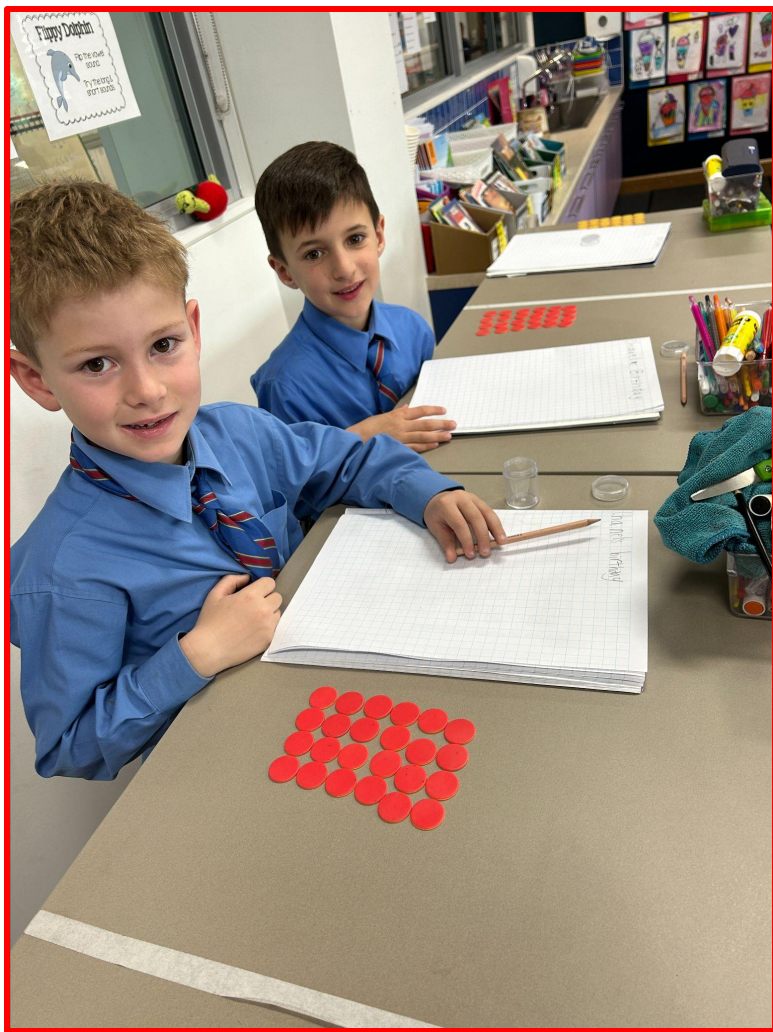
Think back to when you learned to multiply? What do you recall?

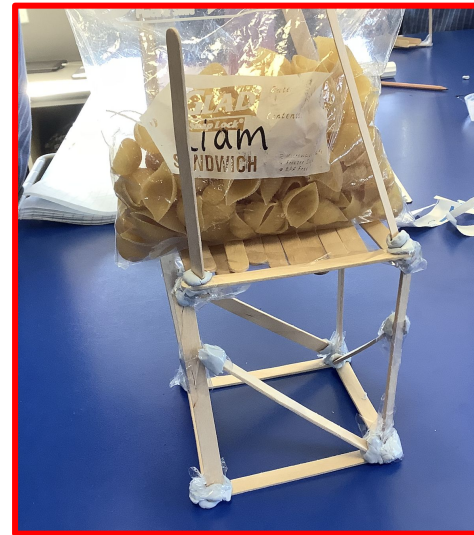
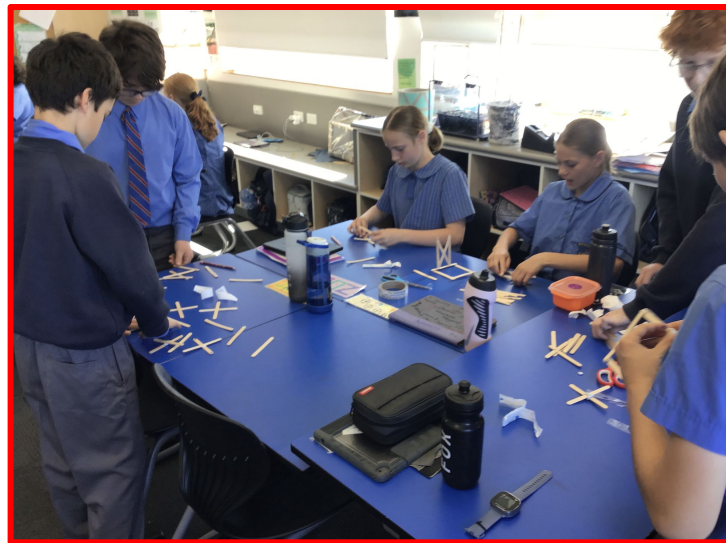
- Current practise

To find a covered area $23 \text{ m} \times 56 \text{ m}$.



A standard multiplication algorithm for 56×23 . The first column shows the partial products: $56 \times 3 = 168$ (blue), $56 \times 20 = 1120$ (green), $56 \times 100 = 1000$ (red), and $56 \times 1000 = 1000$ (orange). The second column shows the final sum: $56 \times 23 = 1288$. Arrows connect the partial products from the first column to the corresponding terms in the second column: blue from 168 to 168, green from 1120 to 1120, red from 120 to 120, and orange from 1000 to 1000.





We all think Differently

- Not one way is right
- Different solutions allow us to avoid errors
- Evaluate preferred strategies
- Most efficient strategies with accuracy
- Flexible and fluent thinking about numbers.

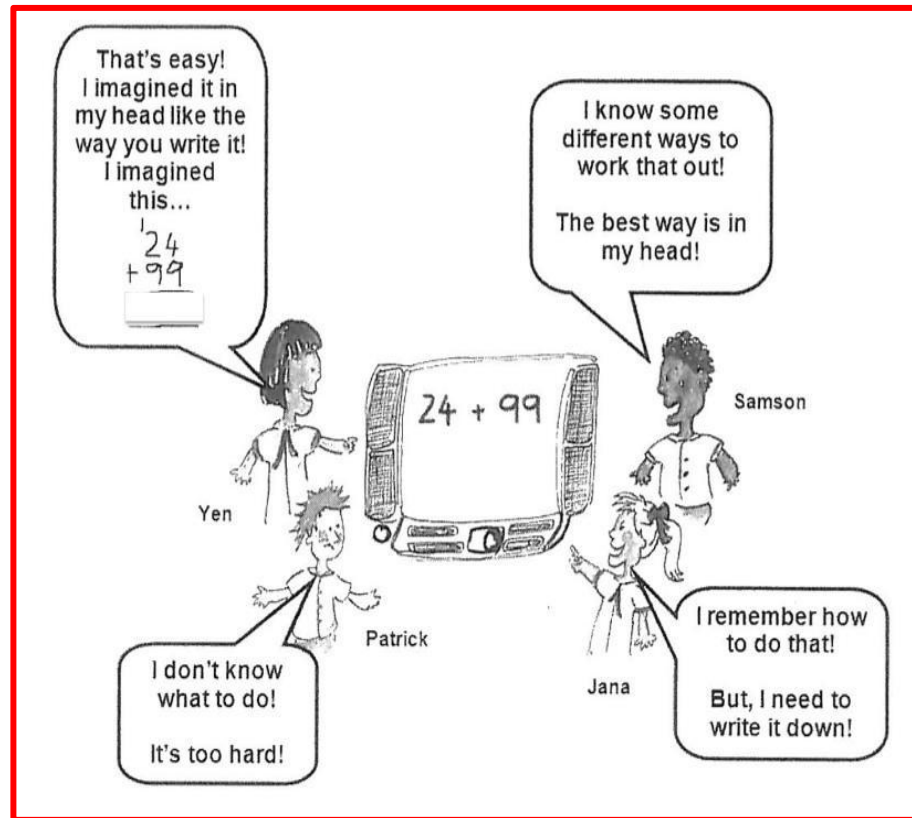
We want students to perform mental strategies in the most efficient way but also to be able to communicate strategies using mathematical language to explain their thinking.

A Maths Moment is
anything from a 30 second
conversation to a 10 minute
game. It all adds up!
(pardon the pun)

-Dr Ange



number
doctors



Math Conversations -
how many ways can we find the
answer?

How do I best support my child to ENJOY numbers?

How can I integrate Maths into our daily routines?

- Play any **game** that uses dice eg Snakes and ladders, Dominoes
- **Speak mathematically**, how much?, how long? how long until?
- Buy an **analog clock** sport/hobby schedules. Using the terms past and to the hour, quarter past/to, half past/to
- **Travel**- timetables, book holidays, speed signs/limit/distance km
- **Cooking/ Sewing/Building**- measuring, decimals, fractions
- **Calendars**- birthdays family and friends, days of the month, number of days, how long until?
- **Shopping**- Using money best buys, supermarket comparisons, making change- counting up or subtracting dollars first then cents (tens first then fives)
- **Sharing** items amongst family members
- **Number blocks** ABC-Iview catch up

Iview: Number Blocks for Infants



Numeracy at home

Find information, advice and activities for families to help their child's numeracy learning at home.

Fun numeracy activities to share at home with your child

Ideas and resources to help you and your child find opportunities to learn numeracy all around you.



Birth to Level 2

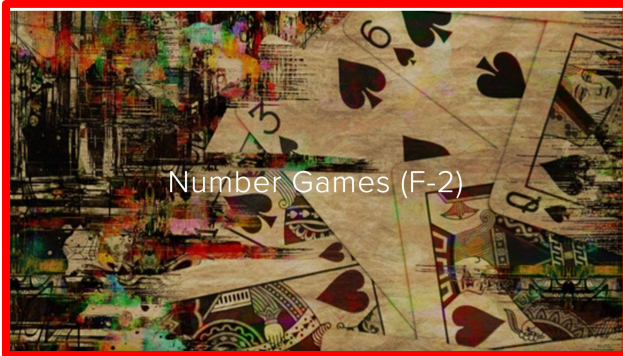
Level 3 to 8

Level 9 to 10

Link for [Infants](#)

Link for [Primary](#)

Love Maths- Infants and Primary



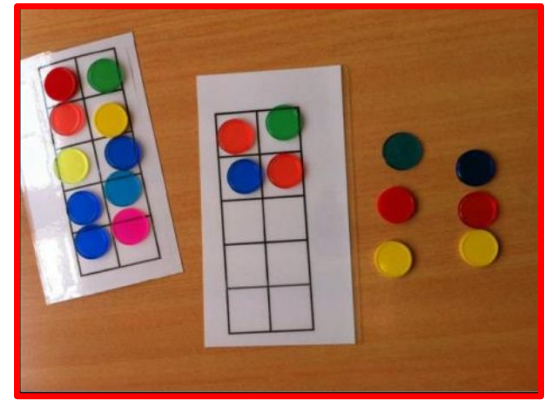
Number Games (F-2)



Number Games (3-6)

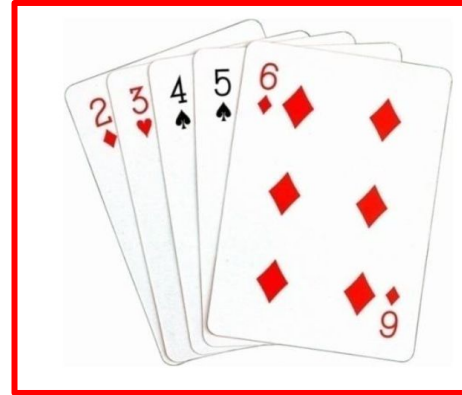
Infants Games

- Race to 20 (tens frames)
- Go Fish- Number Bonds
- Number bonds snap
- Adding to 12 (Optional: 18 - 3 dice)
- Place Value Knockout (Yrs 2-5)



6 000	5 000	4 000	3 000	2 000	1 000
600	500	400	300	200	100
60	50	40	30	20	10
6	5	4	3	2	1

Maths Toolkit



Multiplication

Yrs 3-6

Block it- online multiplication



APSMO
A not-for-profit organisation

Tic Tac Toe—Get Three Multiples in a Row

Multiples of...

❶ Roll the number cube and write the number rolled in the star ❷ On your turn, claim a space by multiplying the factor in the star by the factor in a space and writing the product in the space ❸ Three in a row wins!

❶	❷	❸
❹	❺	❻
❽	❾	

Your download should start soon. If it doesn't, go back to try again. [Close](#)

6X6

1	2	3	4	5	6	7	8	9	10
2	4	6	8	10	12	14	16	18	20
3	6	9	12	15	18	21	24	27	30
4	8	12	16	20	24	28	32	36	40
5	10	15	20	25	30	35	40	45	50
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90
10	20	30	40	50	60	70	80	90	100

BLOCK IT!
Single player

Find the product of the expression on the multiplication table.

If you mark 4 tiles in a row horizontally, vertically or diagonally you win. Keep an eye on the bot. Block it from getting 4 in a row first. If a product is already marked you wait for your next turn.

Problems of the Week

Fact: Everybody does
maths everyday

-Dr Ange



number
doctors

Maths is not hiding... it is
right there, everyday...

-Dr Ange