

# **P2 Parents Symposium**

**Learning Mathematics through  
Hands-on activities**

**16 February 2024**

# Objectives

## **1. Learning Mathematics using**

- **Lego**
- **Thumb-prints**
- **Post-it notes**

## **2. Mathematics Around Us**

## **3. Mathematics Games**

# Learning Mathematics using Lego





# What are the mathematical concepts that you can learn using lego?



- Whole Numbers
- Fraction
- Patterns with shapes
- Graph

# Whole Numbers

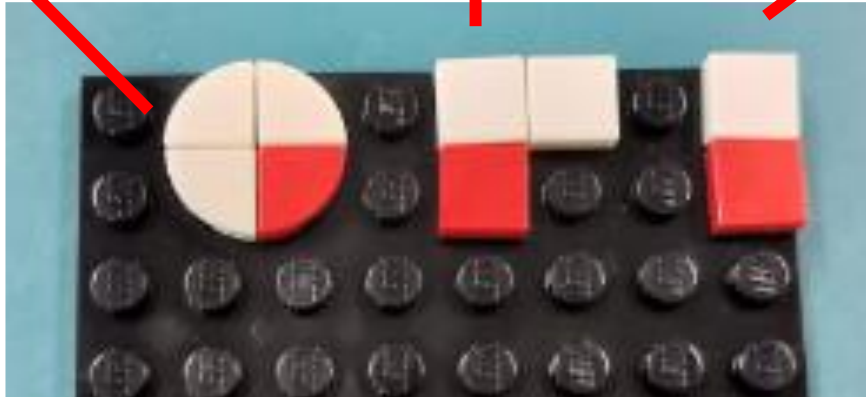


# Fractions

$$\frac{1}{4}$$

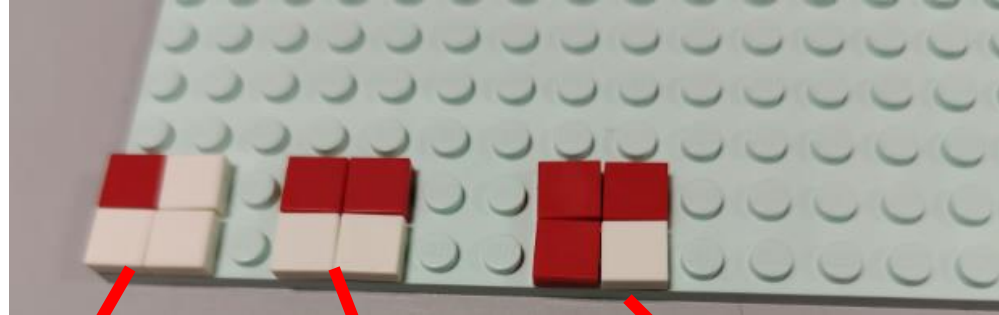
$$\frac{2}{3}$$

$$\frac{1}{2}$$



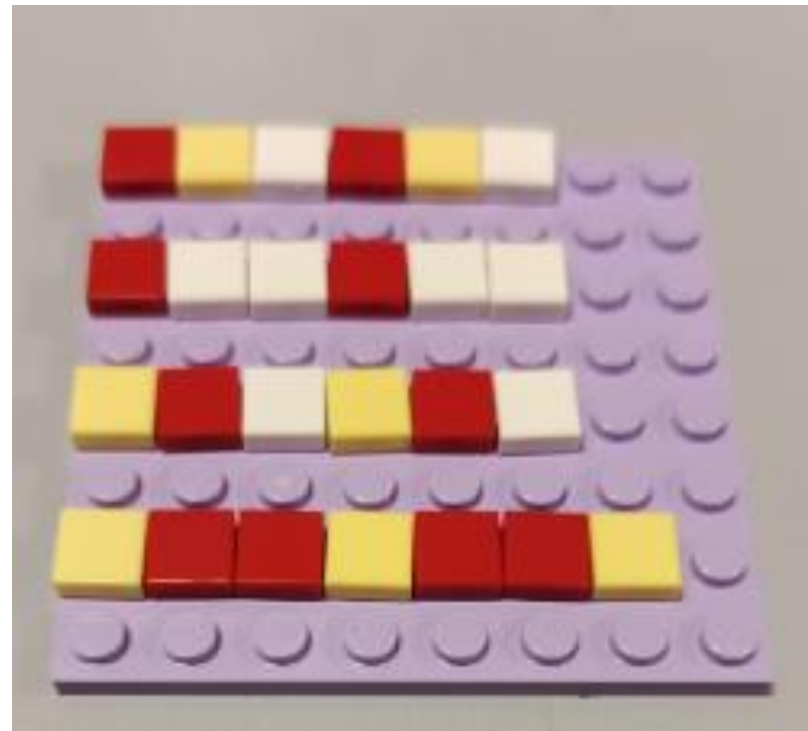
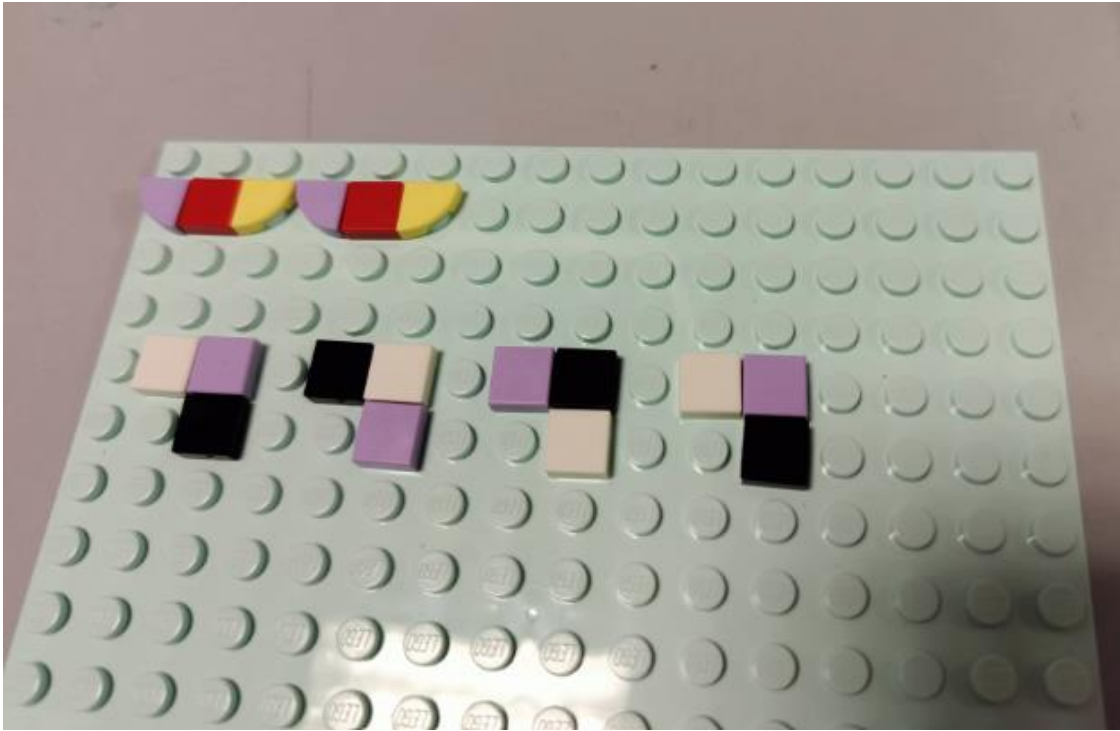


# Addition of like fractions



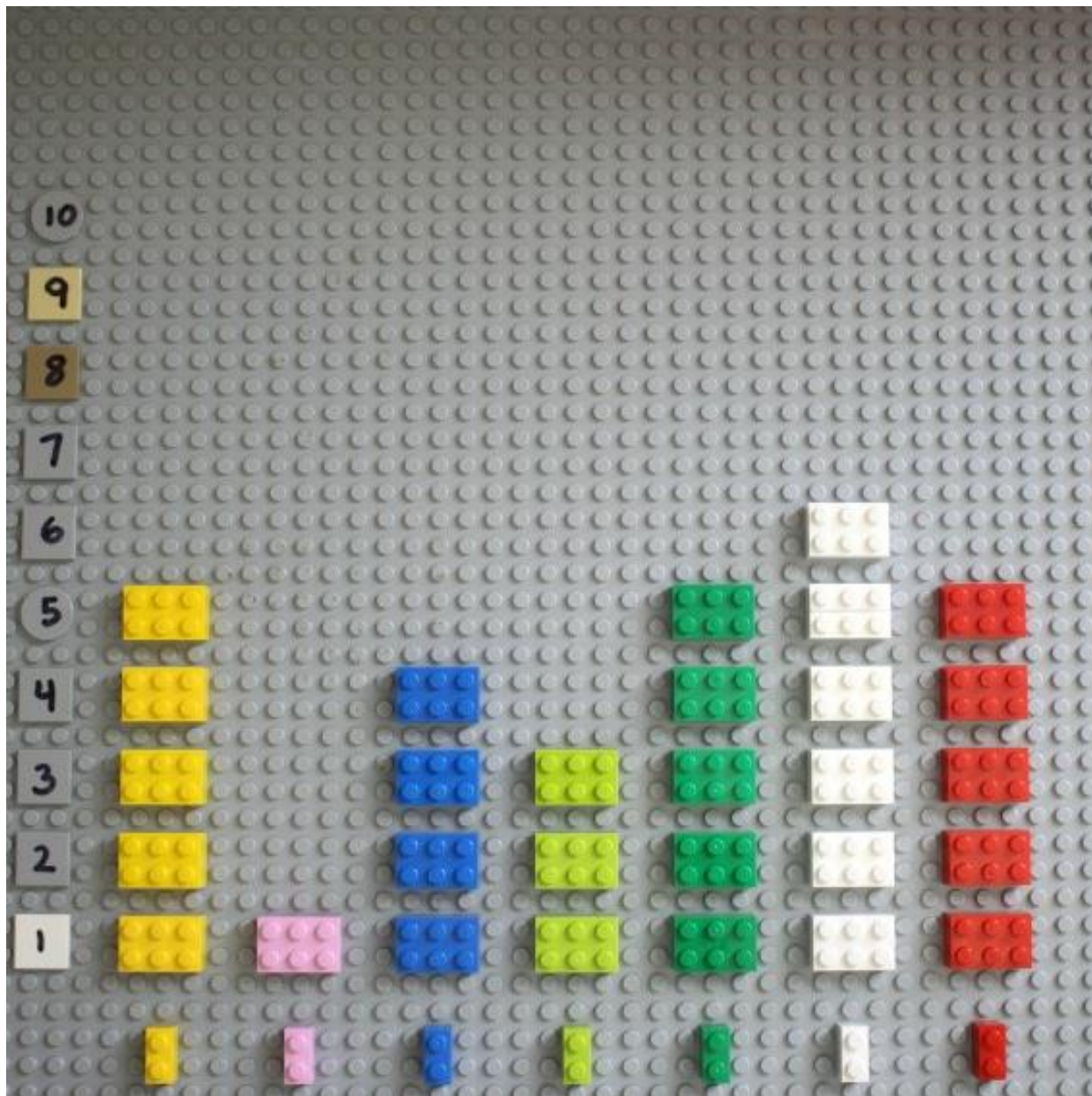
$$\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$$

# Patterns





# Graph



# Graph



Each  represents 5 books

# **Learning Multiplication and Division using Thumb print**





# How many legs do the chicks have altogether?



- $3 \times 2 = 6$
- 3 groups of 2 legs = 6 legs
- 3 twos
- $2 + 2 + 2 = 6$
- $6 \div 2 = 3$
- $6 \div 3 = 2$

# How many thumb prints did you use to draw the 6 caterpillars?



...



- $6 \times 5 = 30$
- 6 groups of 5 thumb prints = 30 thumb prints
- 6 fives
- $5 + 5 + 5 + 5 + 5 + 5 = 30$
- $30 \div 5 = 6$
- $30 \div 6 = 5$

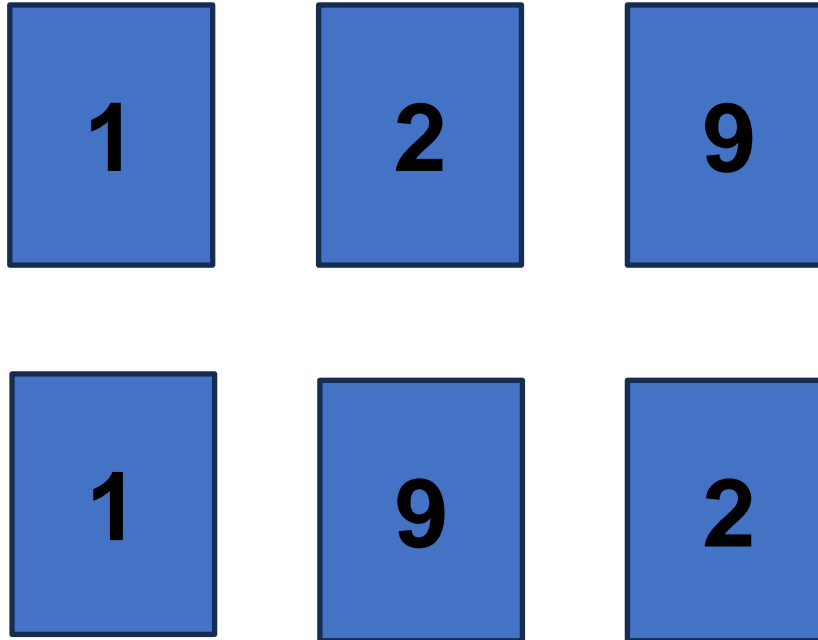


# **Learning Mathematics using post-it notes**



**Form the smallest 3-digit even number using the following digits**

**2, 1, 9**



**Form the largest 3-digit even number using the following digits**

**2, 1, 9**

9	2	1
9	1	2

**Form the smallest 3-digit odd number using the following digits**

**6, 7, 8**

6	7	8
6	8	7



**Form the largest 3-digit odd number using the following digits**

**4, 2, 7**

<b>7</b>	<b>4</b>	<b>2</b>
<b>4</b>	<b>2</b>	<b>7</b>



# Mathematics around us

# Car Plate Number



# Car Plate Number



# Car Plate Number





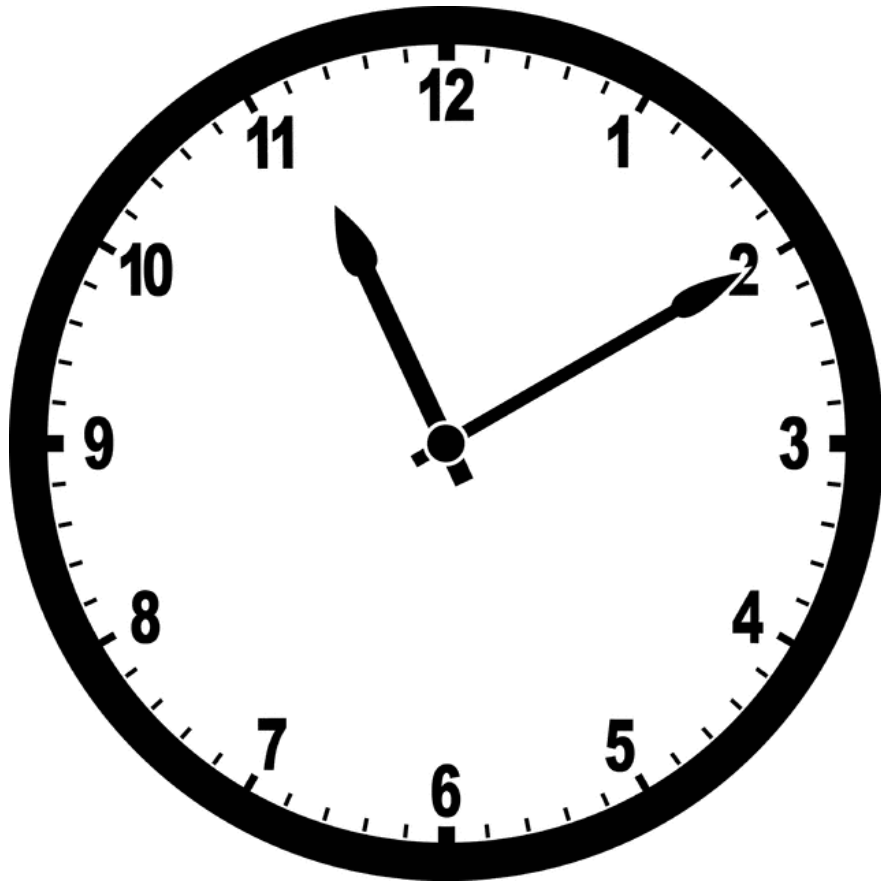
# Multiplication & Division



How many people are there in the house?

How many pairs of chopsticks do I need to prepare?

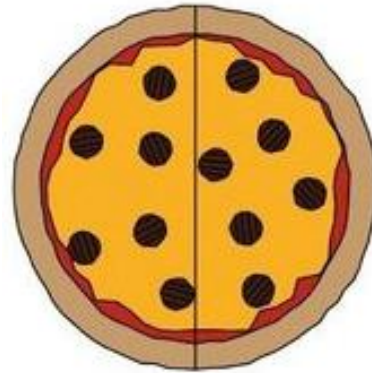
# Time



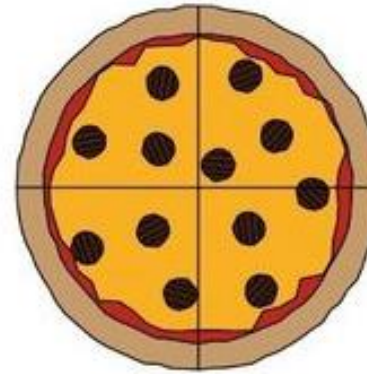
SERVICE	ARRIVING (min)	NEXT (min)	DESTINATION / WAYPOINTS	2 / 4
54	7	12	<b>BISHAN INT</b> Fort Canning Stn Newton Stn	
61	9	14	<b>EUNOS INT</b> Bugis Stn Lavender Stn	
63	3	18	<b>EUNOS INT</b> Bugis Stn Lavender Stn	
80	13	22	<b>SENGKANG INT</b> Bugis Stn Lavender Stn	
124	4	13	<b>ST. MICHAEL'S TER</b> Dhoby Ghaut Stn Somerset Stn	



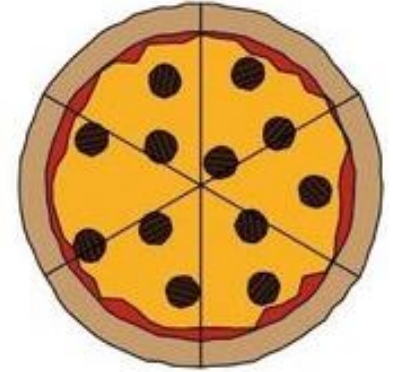
# Fractions



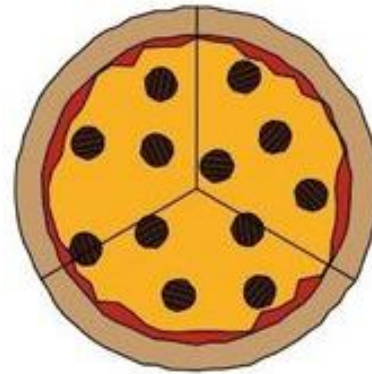
Halves  
Two Slices



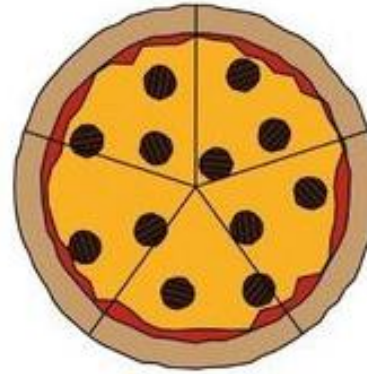
Fourths or Quarters  
Four Slices



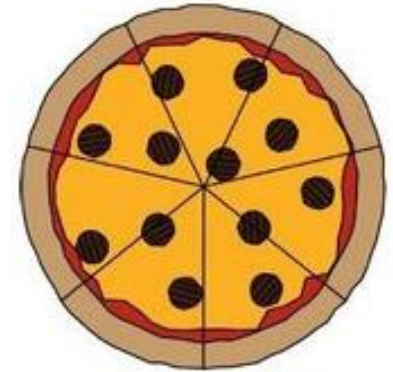
Sixths  
Six Slices



Thirds  
Three Slices



Fifths  
Five Slices



Sevenths  
Seven Slices

# Volume



**2 litres of green tea**



Type A cups



Type B cups



# Mass

Can you arrange the objects from the lightest to the heaviest?



# Money

**How much do I need to pay if I want to buy burgers for 4 people?**



- Let your child decide which burgers to buy.
- How much does he/ she need to pay in all?



# Mathematics Games



# Snake & Ladder







# Halli Galli



# Multiplication Game



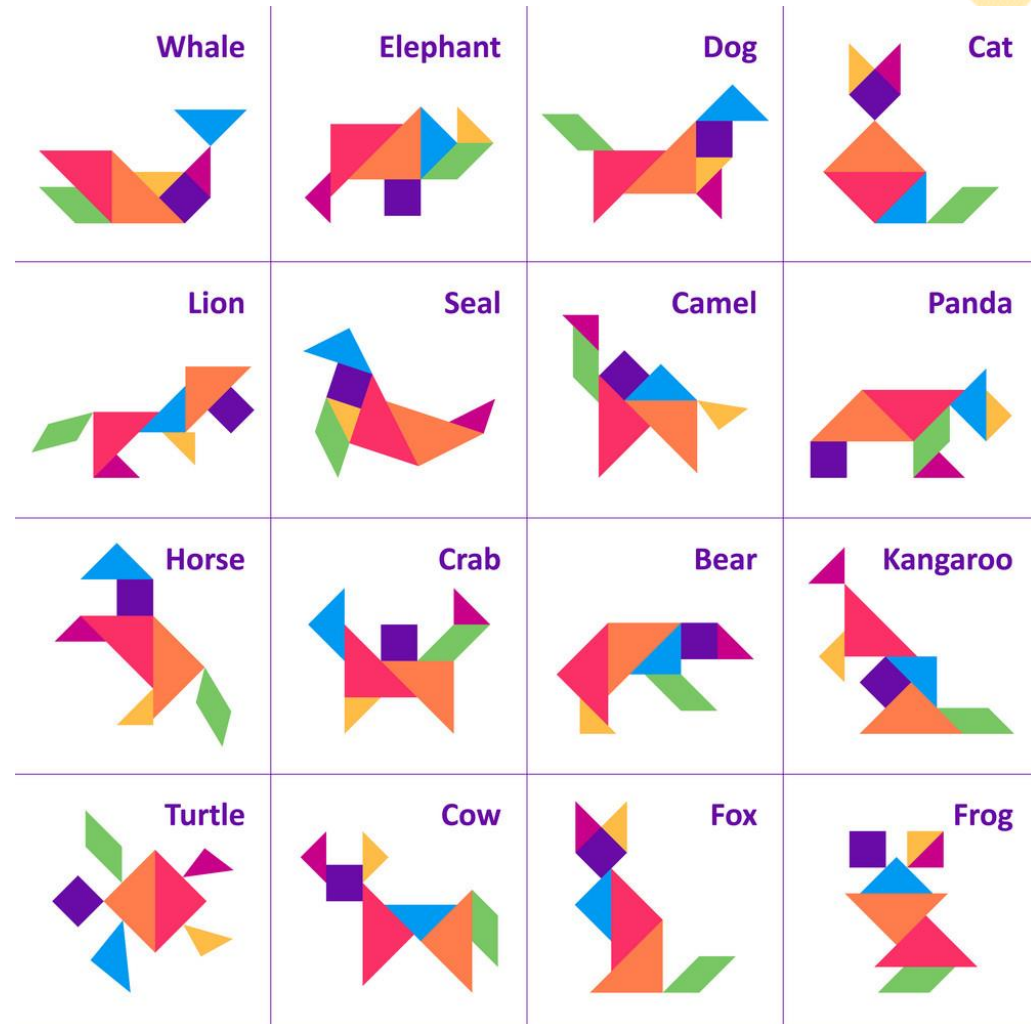
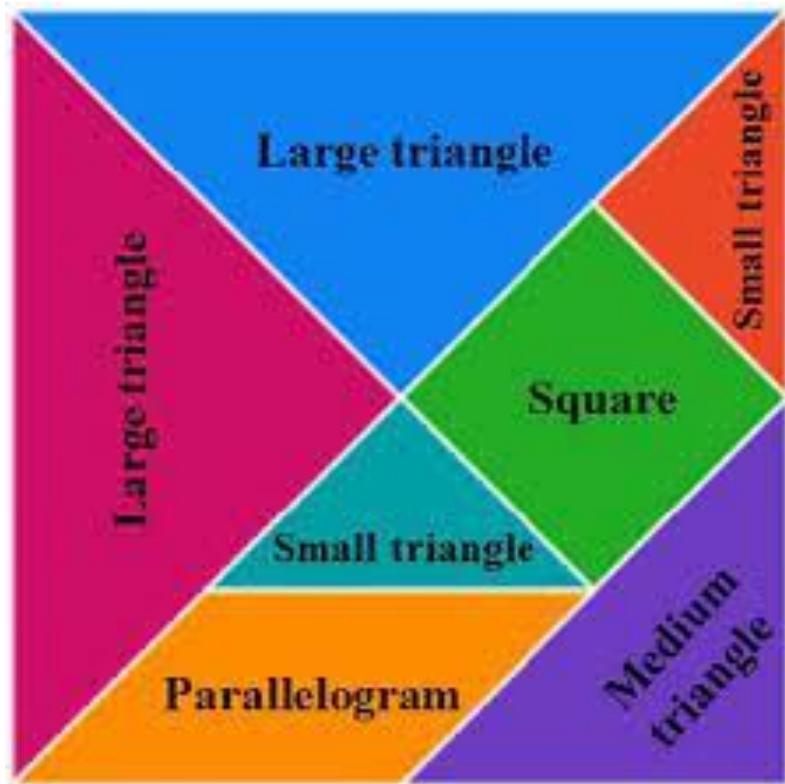


# Blokus





# Tangrams



# IQ Professor



