# 2022 ANALYSIS

# TOP 10 STRATEGIES TESTED IN PSLE

## ANALYSIS OF PAST YEAR PAPERS FROM THE PSLE AND SCHOOL EXAMINATIONS

Use this as a guide to prepare yourself better for the PSLE:

- Check if you are able to identify and solve all these 10 question types.
- If you are still not very sure with some of them, check out our strategy worksheets for the notes and practice the questions again.
- Sign up for the free HAG class every Sunday if you need more clarifications.
- Check out Episode 19 of "Understanding PSLE Math Series" for the full rundown of our 2022 analysis of the Top 10 Strategies tested in the PSLE.

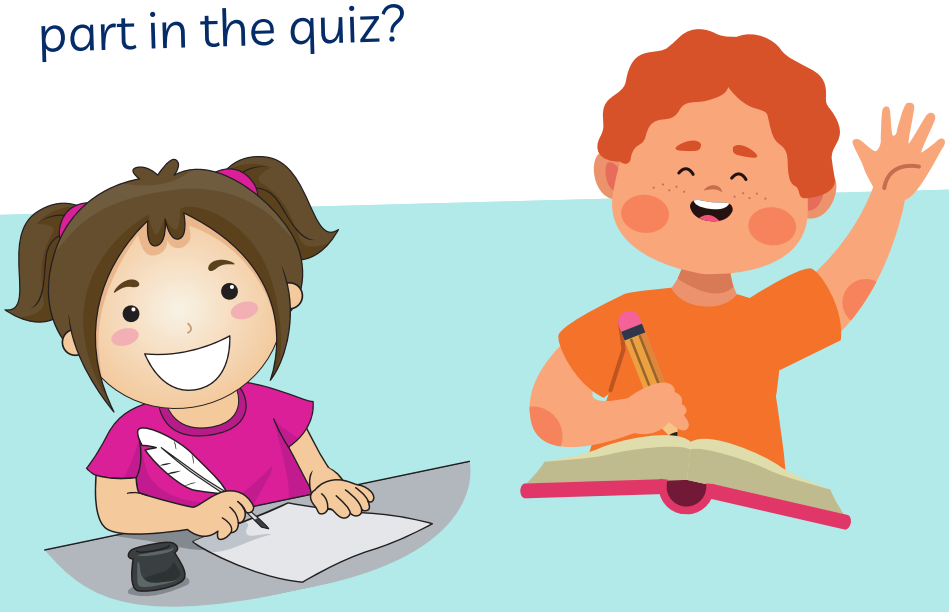
# FRACTION OF A RATIO

## PSLE 2021

The number of boys and girls taking part in a quiz are in the ratio 7 : 4. These students are put into two groups. 30% of the boys and 60% of the girls are in Group A. The rest of the students are in Group B.

(a) What is the ratio of the number of students in Group A to Group B? Give your answer in the simplest form.

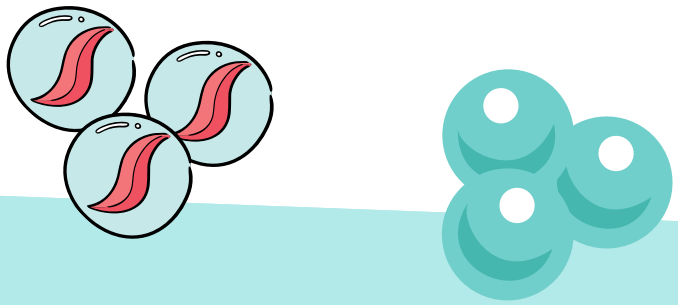
(b) The number of boys in Group A is fewer than 70. What is the largest possible total number of students taking part in the quiz?



# WHAT REMAINS THE SAME?

## PSLE 2021

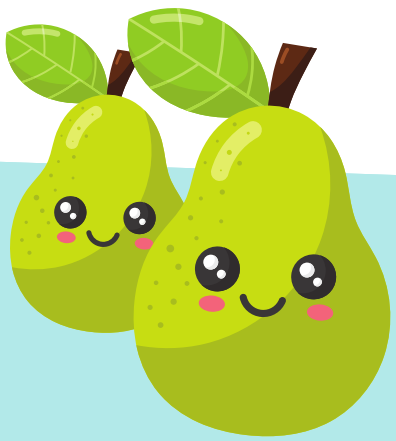
Suzy had a box of blue marbles and red marbles in the ratio 7 : 13.
She removed an equal number of blue marbles and red marbles from the box.
The ratio of the number of blue marbles and red marbles left in the box became 1 : 3. What percentage of the beads were left in the box?



# CONNECT MI

## AI TONG PRELIM 2021

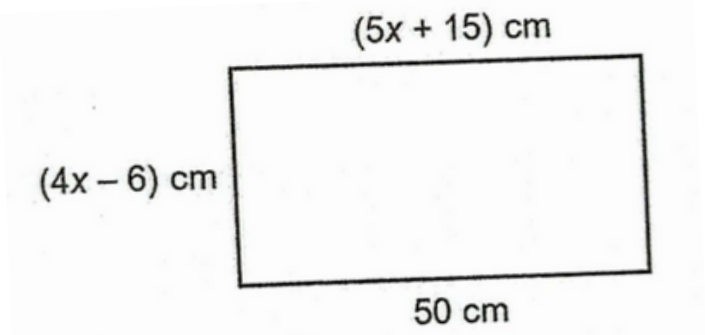
Mrs Wong bought 80% as many pears as apples and 40% as many oranges as apples.
She paid a total of $150 for all the fruits. The ratio of the amount of money she spent on the pears to the amount she spent on the apples was 2 : 3. The ratio of the amount of money she spent on the pears to the oranges was 1 : 5.
Each apple cost $0.50.
Find the total number of fruits Mrs Wong bought.



# MAGICAL RED LINE

## PSLE 2021

Find the value of the breadth of the rectangle.




# COUNTING BY SETS

## MGS SA1 2021

A repeated pattern is formed using the digits 1 and 3.
The first 15 digits are shown below.
What is the sum of the first 25 digits?

1 3 1 3 1 1 3 1 3 1 1 3 1 3 1 . . .
1st 2nd 3rd 15th

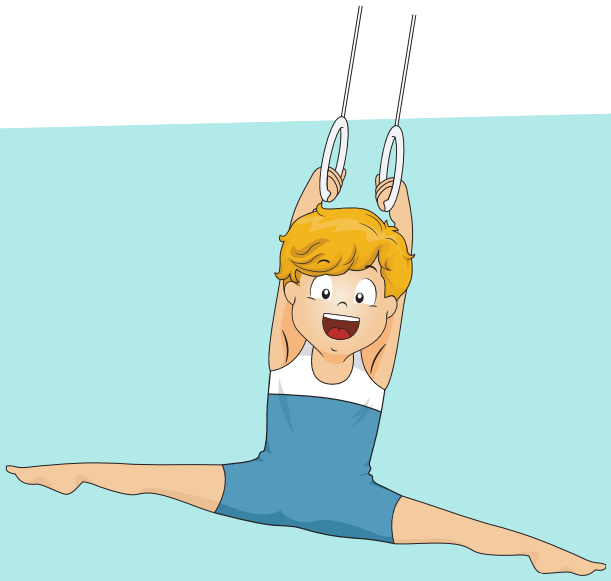
# SPLIT THE LEG

## PSLE 2020

Mrs Wu spent 1/6 of her money on a dress and 2 blouses. The dress cost 3 times as much as each blouse. Mrs Wu spent 3/4 of her remaining money on a watch. She spent $220.50 more on the watch than on the dress.

(a) What fraction of Mrs Wu's money was spent on each blouse?

(b) How much money did Mrs Wu have at first?



# CONNECT GROUP

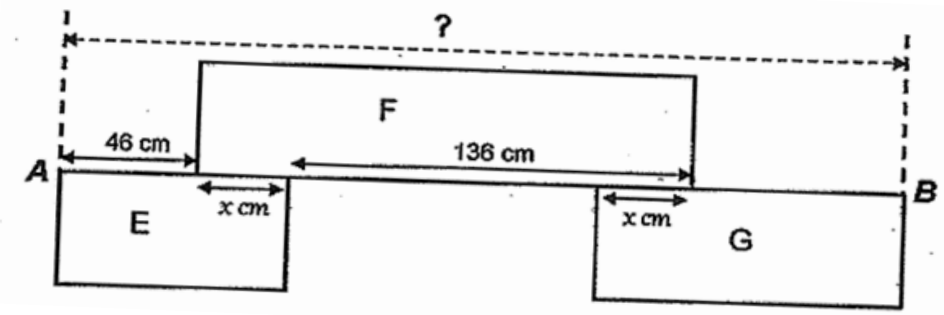
## PSLE 2021

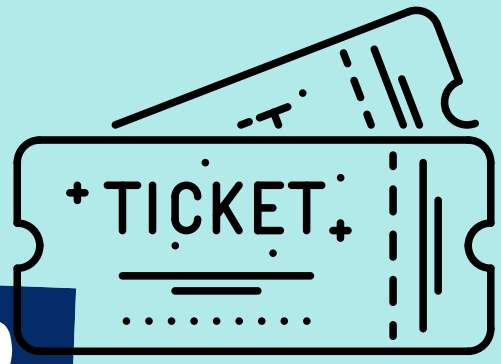
Alan, Ben and Chandra shared the cost of a gift.
The ratio of Alan's share to the total share of Ben and Chandra was 1 : 3. The ratio of Ben's share to the total share of Alan and Chandra was 1 : 5.
Chandra's share was $80 more than Ben's share. How much did the gift cost?

# TAO NAN PRELIM 2020

## LET'S KILL

The figure below is made up of 3 different rectangles with identical breadth. The length of Rectangle E is 5/11 the length of Rectangle F. The length of Rectangle G is 1/2 of the total length of Rectangle E and Rectangle F. Find the length AB of the figure.




## SETS RATIO

# PSLE 2021

The table shows the prices of tickets for a concert.

| Type | Age | Price per ticket |
|---|---|---|
| Adult | Below 60 years | $16 |
| | 60 years and above | $11 |
| Child | Below 16 years | $7 |

The number of adult tickets sold was 5 times the number of child tickets sold. of the adult tickets sold were for adults aged below 60 years. A total of $5589 was collected from the sales of tickets.

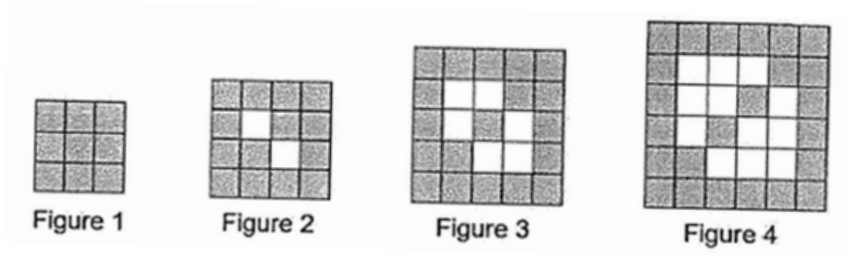
(a) What fraction of the tickets sold were for adults aged 60 years and above? Give your answers in the simplest form.

(b) What was the total number of tickets sold?

# PATTERN OBSERVATION- COUNT BY GAPS

## CATHOLIC HIGH SA1 2021

Shaded and unshaded squares are used to form the figures that follow a pattern. The first four figures are shown below.




The table below shows the number of shaded and unshaded squares used for each figure.

| Figure Number | Number of shaded squares | Number of unshaded squares | Total number of squares |
|---|---|---|---|
| 1 | 9 | 0 | 9 |
| 2 | 14 | 2 | 16 |
| 3 | 19 | 6 | 25 |
| 4 | 24 | 12 | 36 |
| 5 | | | 49 |

(a) Complete the table for Figure 5.

(b) Find the total number of squares in Figure 11.

(c) Which figure number has 134 shaded squares?