

PSLE Topics

		Standard Mathematics		Foundation Mathematics	1
	1.	Numbers	1.	Numbers	
		(include Fractions and Decimals)		(include Fractions and Decimals)	
	2.	Measurement	2.	Measurement	1
		(include length, mass, area and volume)		(include length, mass, area and volume)	
	3.	Data Analysis	3.	Data Analysis	
		(include graph and pie chart)		(include graph and pie chart)	
	4.	Geometry	4.	Geometry	
-		(include angles and shapes)		(include angles and shapes)	N.
	5.	Percentage and Ratio	5.	Percentage	
	6.	Algebra			
	7.	Speed			
MA	8.	Nets			
1					ľ

PSLE Format (Standard Math)

Paper	Booklet	Item Type	No. of questions	No. of marks per question	Total marks	Duration
	Α	Multiple-choice	10	1	10	A 15-5
1			5	2	10	1 h
	В	Short-Answer	5	1	5	
			10	2	20	
2		Short-Answer	5	2	10	1 h 30 min
		Structured/ Long-Answer	12	3, 4 or 5	45	
	Tota	al	47	-	100	2 h 30 min

Note:

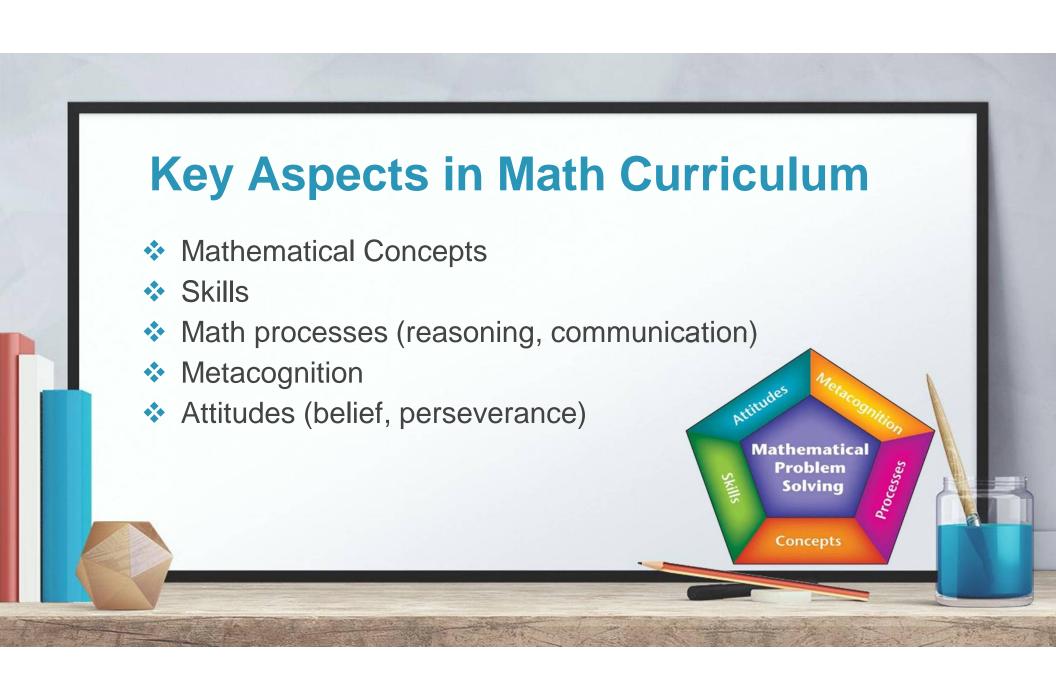
• The use of an approved calculator is allowed in Paper 2 but not in Paper 1.

PSLE Format (Foundation Math)

Paper	Booklet	Item Type	No. of questions	No. of marks per question	Total marks	Duration
	А	Multiple-	10	1	10	
1		choice	10	2	20	1 h
	В	Short-Answer	10	2	20	
2		Short-Answer	10	2	20	1 h
		Structured	6	3 or 4	20	
	Total		46	9 (d) - 1	90	2 h

Note:

The use of an approved calculator is allowed in Paper 2 but not in Paper 1.

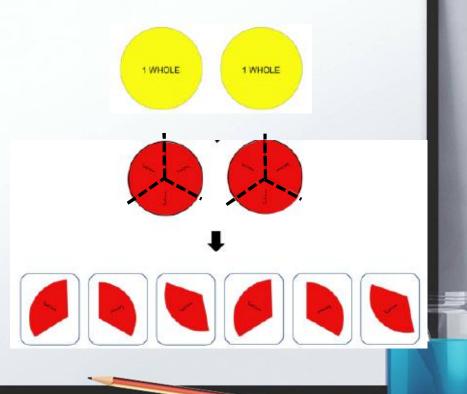


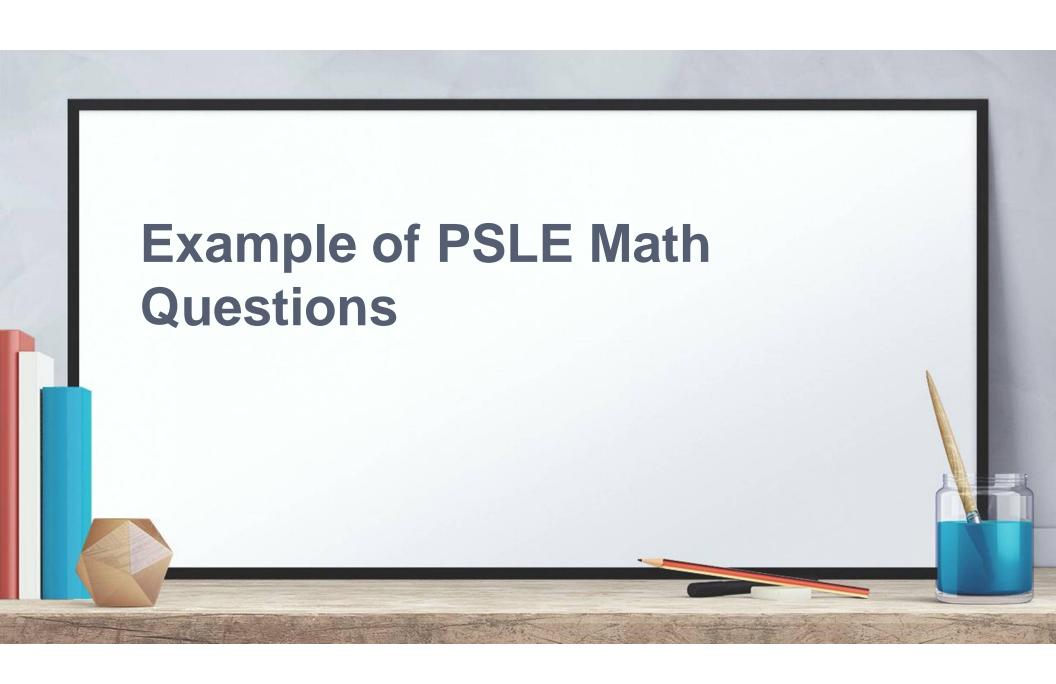
Emphasis on Mathematical Concept and Reasoning

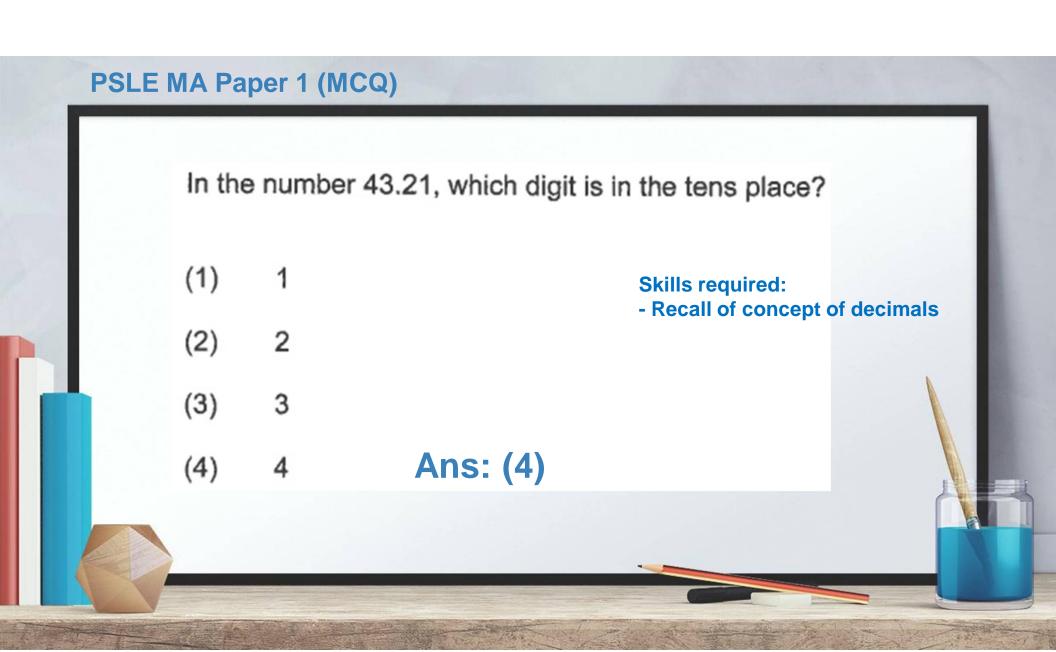
Division of fractions

$$2 \div \frac{1}{3} = 2 \times \frac{3}{1} = 6$$

How many groups of $\frac{1}{3}$ are there in 2 wholes? Ans: 6





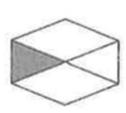


PSLE MA Paper 1 (MCQ)

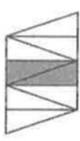
Which of the following shows $\frac{1}{4}$ of the figure shaded?



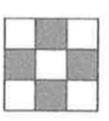
(1)



(2)



(3)



(4)

Ans: (3)

Skills / concepts required:

- Fraction as equal parts of a whole
- Equivalent fractions

PSLE MA Paper 1 (short-answer)

The table shows the number of male and female members in a club in June. The number of female adults is not shown.

A ma Croup	Number of members in June		
Age Group	Male	Female	
Youth (Below 20 years)	15	28	
Adult (20 to 59 years)	15	?	
Senior Citizen (60 years and above)	32	44	

(a) 50% of all the female members in the club were adults. How many female adults were there in the club?

The table shows the number of male and female members in a club in June. The number of female adults is not shown.

	Number of me		
Age Group	Male	Female	
Youth (Below 20 years)	15	28 ←	
Adult (20 to 59 years)	15	<i>?</i> 50%	500
Senior Citizen (60 years and above)	32	44 🗸	

Skills/ concepts required:

- Reading of table (data analysis)
- Concept of percentage

- (a) 50% of all the female members in the club were adults. How many female adults were there in the club?
 - (a) Female youth + SC \rightarrow 50% of total adults Female adult = 28 + 44 = 72

The table shows the number of male and female members in a club in June. The number of female adults is not shown.

Ass Crown	Number of members in June			
Age Group	Male	Female		
Youth (Below 20 years)	15	28 €		
Adult (20 to 59 years)	15	? 50%		
Senior Citizen (60 years and above)	32	44 6		

Skills/ concepts required:

- Reading of table (data analysis)
- Concept of percentage
- Concept of fractions

50%

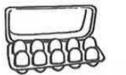
(b) In July, some female adults left the club. There was no change in the number of members in the other 5 groups. Did the percentage of male members in the club increase, decrease or remain the same from June to July?

> male → remain total → decrease

Ans: increase







Buy 10 eggs, get 2 more eggs free

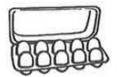
Skills/ concepts required:

- Concept of money
- Grouping concept
- Concept of ratio / proportion

Mrs Lim took home 120 eggs. She paid \$4.80 less with the special offer. What was the price of 10 eggs without the special offer?

PSLE MA Paper 1 (short-answer)

Special Offer





Buy 10 eggs, get 2 more eggs free

1 set → 12 eggs

Mrs Lim took home 120 eggs. She paid \$4.80 less with the special offer. What was the price of 10 eggs without the special offer?

10 sets → 120 eggs (buy 100 + free 20)

20 free eggs cost \$4.80 10 eggs cost $4.80 \div 2 =$ **\$2.40**

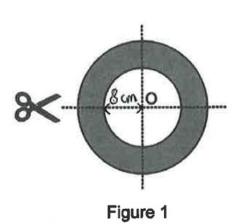
Skills/ concepts required:

- Concept of money
- Grouping concept
- Concept of ratio / proportion

PSLE Paper 2

A small circle with centre O has been cut from a circular piece of cardboard with the same centre. The radius of the small circle is 8 cm.

The remaining cardboard is then cut into four equal parts along the dotted lines as shown in Figure 1. The four parts are rearranged to form a new shape in Figure 2.



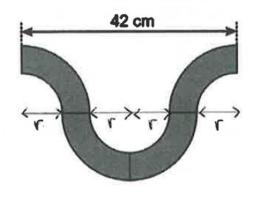


Figure 2 (new shape)

(a) Find the area of the new shape.

Skills/ concepts required:

- Concept area and perimeter
- Visualisation skills

PSLE Paper 2

A small circle with centre O has been cut from a circular piece of cardboard with the same centre. The radius of the small circle is 8 cm.

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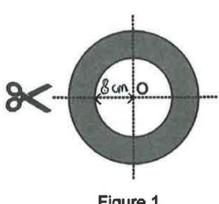


Figure 1

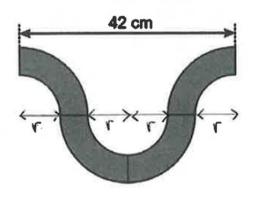


Figure 2 (new shape)

Thickness =
$$(42 - 4 \times 8) \div 2$$

= 10 $\div 2$
= 5 cm

$$r (small) = 8cm$$

 $r (big) = 13cm$

Area (big) =
$$3.14 \times 13 \times 13$$

= 530.66

$$530.66 - 200.96$$
 = $329.7 \, \text{cm}^2$

(a) Find the area of the new shape.

PSLE Foundation Math Paper

Yummy Bakery and Zen Bakery sell buns at the prices shown.

Curry Bun



\$1.80

Kaya Bun



\$1.50

Cheese Bun



\$1.70

Yummy Bakery

Sale Buy 3 buns, Pay for 2

The cheapest bun will be free

Zen Bakery

Sale 20% discount on ALL buns **Skills/ concepts required:**

- Concept money
- Concept of percentage

Yummy Bakery

The cheapest bun is free

→ kaya bun

Total = \$1.80 + \$1.70

= \$3.50

Mabel bought one bun of each type from Yummy Bakery during the sale.

How much did Mabel pay?



- Study all important information in the problem, e.g. annotate or underline key words.
- Practice time management skill. Skip questions when unsure and return to complete them later on.
- Attempt all questions. Show all the Math equations and workings.
- Familiarise the functions required in calculators.
- Check the accuracy of the work, e.g. number transfer, unit of measurements, calculation.

Mathematical Problem Solving Approach

- 1. Study
- 2. Think

3. Act

4. Reflect

- What am I given?
- What am I asked to find?
- How can I retell the problem in my own words?
- What is the topic / concept used?
- What strategy should I use?
- Can I use diagram or model?
- What are the steps / equation?
- Have I written down the equations?
- Does my answer make sense?
- Did I check for unit and calculation?
- Can I solve it differently?

Common Mistakes Made By Students

1. Transfer error

Example: $9 \times $12 = 108

$$$100 \div 2 = $50$$

2. Omission or incorrect units of measurement

Example: 1 km = 100 m (Wrong Fact)

Common Mistakes Made By Students

3. Writing incorrect Math equations

Example:
$$20 + 10 = 30 + 5 = 35$$

not equal

(Wrong equations as the 2 steps are combined into one)

How Parents Can Support Their Child

- Monitor the homework completion
 - * Get your child to present his / her work clearly and systematically
- Encourage your child to have regular revision
 - * Re-attempt questions where corrections have been done (independent work)
 - * Get the formula right, e.g. Area (rectangle) = L x B
 - * Commit certain facts into memory, e.g. $0.5 = \frac{1}{2} = 50\%$
- Build time management skills
 - * When doing a timed practice, get your child to complete the practice within the given time

