

PSLE Maths Crash Course

Last-Minute Revision for Maximum Results

 High-Impact Concepts

 Memory Techniques

 Time-Efficient

Emergency Revision Protocol

Final 48 Hours

- Focus on formula memorisation
- Practice heuristics only
- Review common mistakes
- Do timed mini-tests

Final 24 Hours

- Memorise key formulas
- Quick concept review
- Light practice only
- Rest and sleep well

Exam Morning

- Review formula sheet
- Check exam materials
- Stay calm and focused
- Positive mindset

Essential Formula Cheat Sheet

Geometry Formulas

Rectangle: Area = $l \times w$, Perimeter = $2(l + w)$

Circle: Area = πr^2 , Circumference = $2\pi r$

Triangle: Area = $\frac{1}{2} \times \text{base} \times \text{height}$

Cube: Volume = l^3 , Surface Area = $6l^2$

Cuboid: Volume = $l \times w \times h$

Memory Aid: "Circle Area Pie Are Square"
(πr^2)

Speed, Time, Distance

Speed = Distance \div Time

Distance = Speed \times Time

Time = Distance \div Speed

Memory Triangle:

D

S \times T

Cover what you want to find!

Fractions & Percentages

Fraction to %: Fraction \times 100%

% to Decimal: % \div 100

Percentage of: % \times whole \div 100

Average: Total \div Number of items

Quick Check: $\frac{1}{2} = 50\%$, $\frac{1}{4} = 25\%$, $\frac{3}{4} =$

Ratio & Proportion

Ratio a:b = $\frac{a}{b}$

Total parts = a + b

Share = (ratio part \div total parts) \times total value

Memory Aid: "Parts make the Whole"

💡 Essential Problem-Solving Heuristics

📊 Bar Modeling

Draw rectangles to represent quantities and relationships.

When to use: Word problems with "more than", "less than", fractions of quantities

↶ Working Backwards

Start from the final result and reverse the operations.

When to use: Problems with "ended up with", "finally had"

🔍 Guess and Check

Make educated guesses and test systematically.

When to use: Questions with conditions to satisfy, whole number answers

👁️ Look for Patterns

Identify relationships in sequences or repeated structures.

When to use: Number sequences, geometric patterns, cyclical events

☰ Systematic Listing

Organise all possibilities in a structured way.

When to use: Counting problems, "how many ways", combinations

↔ Before-After

Compare initial and final states to find changes.

When to use: Problems involving increases/decreases, transformations

🔗 Quick Diagnostic Tests

Answer these to identify your weak areas (1 minute each)

📅 Basic Operations Test

1. $2.5 \times 4 = \underline{\quad}$
2. $3/4 + 1/8 = \underline{\quad}$
3. 25% of 80 = $\underline{\quad}$
4. 7:3 ratio, total 40, smaller share = $\underline{\quad}$

📐 Geometry Test

1. Circle radius 7cm, area = $\underline{\quad}$
2. Rectangle 8×5 , perimeter = $\underline{\quad}$
3. Cube side 4cm, volume = $\underline{\quad}$
4. Triangle base 6, height 4, area = $\underline{\quad}$

Answers: 1) 10, 2) 7/8, 3) 20, 4) 12

Answers: 1) 154cm^2 , 2) 26cm , 3) 64cm^3 , 4) 12cm^2

Speed Problems Test

1. 60km in 2 hours, speed = ____
2. 40km/h for 3 hours, distance = ____
3. 100km at 50km/h, time = ____

Answers: 1) 30km/h, 2) 120km, 3) 2 hours

Algebra Test

1. If $x = 5$, find $3x + 2 =$ ____
2. $2y - 6 = 10$, $y =$ ____
3. Simplify: $4a + 3a =$ ____

Answers: 1) 17, 2) 8, 3) $7a$

Power Memory Techniques

Formula Memory Tricks

Circle Area: "Pie Are Squared" $\rightarrow \pi r^2$

Speed Formula: "Speedy Distance Time" \rightarrow
 $S = D/T$

Percentage: "Per Cent means Per 100" \rightarrow
 $\%/100$

Volume of Cube: "Length cubed Like Love³"
 $\rightarrow l^3$

Number Memory Aids

$\pi \approx 3.14$: "My Teacher π " (3 letters, 7 letters)

Common Fractions: $1/2=50\%$, $1/4=25\%$,
 $3/4=75\%$

Perfect Squares: 1,4,9,16,25,36,49,64,81,100

Conversion: $1\text{km} = 1000\text{m}$, $1\text{m} = 100\text{cm}$

Rapid-Fire Practice Questions

Speed Round (2 minutes)

1. $0.75 \times 8 =$ ____
2. $3/5$ of 45 = ____
3. 20% of 150 = ____
4. $7 \times 8 =$ ____
5. $\sqrt{64} =$ ____
6. $2.5 + 3.7 =$ ____
7. $15 \div 0.5 =$ ____

Word Problems (3 minutes)

1. Mary has 24 stickers. She gives $1/3$ to her sister. How many does she have left?
2. A rectangle has length 12cm and width 8cm. Find its area and perimeter.
3. John runs 5km in 30 minutes. What is his speed in km/h?

Answers: 1) 16 stickers, 2) Area= 96cm^2 ,

8. $12^2 = \underline{\hspace{2cm}}$

Perimeter=40cm, 3) 10km/h

Quick Answers: 1)6, 2)27, 3)30, 4)56, 5)8, 6)6.2, 7)30, 8)144

! Common Mistakes to Avoid

✗ Calculation Errors

Always double-check arithmetic. Use estimation to verify answers.

✗ Wrong Units

Read questions carefully. Convert units when necessary.

✗ Misreading Questions

Underline key information. Check what the question asks for.

✗ Time Management

Don't spend too long on one question. Move on and return later.

✗ Forgetting to Simplify

Always simplify fractions and check if answers can be reduced.

✗ Incomplete Working

Show all steps clearly. You can get method marks even if final answer is wrong.

♟ Exam Day Strategy

Paper 1 Strategy (50 minutes)

Booklet A (MCQ): 1 minute per question

Booklet B (Short Answer): 1.5 minutes per question

Time Check: After 25 minutes, you should finish Booklet A

Strategy: Answer all easy questions first, return to difficult ones

Final 5 minutes: Review and check answers

Paper 2 Strategy (1h 40min)

First 5 minutes: Scan all questions

Strategy: Answer easier questions first (aim for 60% marks quickly)

Time per mark: Approximately 2 minutes per mark

Difficult questions: Show working even if unsure of final answer

Final 10 minutes: Review and check all answers

🏆 Final Confidence Boosters

🌟 You've Got This!

🌟 Stay Calm

Take deep breaths. You've prepared well. Trust your knowledge.

🎯 Focus

Read each question carefully. Use your heuristics when stuck.

💪 Persist

Don't give up on difficult questions. Show your working and try your best.

📖 Quick Reference Card

Print and Keep This With You!

Essential Formulas

Area of circle = πr^2
Circumference = $2\pi r$
Speed = Distance \div Time
Average = Total \div Count
% = Fraction \times 100

Quick Conversions

$1/2 = 0.5 = 50\%$
 $1/4 = 0.25 = 25\%$
 $3/4 = 0.75 = 75\%$
1km = 1000m
1m = 100cm

Problem Keywords

"More than" \rightarrow Addition
"Less than" \rightarrow Subtraction
"Times as many" \rightarrow Multiply
"Shared equally" \rightarrow Division
"Ratio" \rightarrow Parts of whole

Exam Tips

Read questions twice
Underline key info
Show all working
Check units in answer
Estimate to verify

🚀 You're Ready for PSLE Success!

Remember: This crash course covers the essentials. Stay confident, manage your time, and trust your preparation.

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