

Mathematics

PSLE 2018

What is new?

- Examination Format
- Content

Examination Format (Mainstream)

| Paper | Booklet | Item Type | No of qns | Marks per qn | Weighting | Duration |
|--------------------------------|---------|--------------------------|-------------------|--------------|---------------------|-----------------------------------|
| 1 (Calculators not allowed) | A | Multiple-choice | 10 | 1 | 10% | 50 min (1 h) |
| | | | 5 | 2 | 10% | |
| | B | Short-answer | 10 (5) | 1 | 10% (5%) | |
| | | | 5 (10) | 2 | 10% (20%) | |
| 2 (Calculators are allowed) | | Short-answer | 5 | 2 | 10% | 1 h 40 min (1 h 30 min) |
| | | Structured / Long-answer | 13 (12) | 3, 4, 5 | 50% (45%) | |
| Total | | | 48 (47) | - | 100% | 2 h 30 min |

Changes in Format

| Section | Up to 2017 | New in 2018 |
|--|--|---|
| Paper 1 Section B | 10 x 1 mark and 5 x 2 marks Short answer questions | 5 x 1 mark and 10 x 2 marks Short answer question |
| Paper 2 Structured / Long answer | 13 questions | 12 questions |
| Both Papers | 48 questions | 47 questions |

Changes in Marks Allocation

| Section | Up to 2017 | New in 2018 |
|---------|-----------------|-----------------|
| Paper 1 | 40 marks | 45 marks |
| Paper 2 | 60 marks | 55 marks |

Changes in Time Allocation

| Section | Up to 2017 | New in 2018 |
|---------|--------------------------|--------------------------|
| Paper 1 | 50 minutes | 1 hour |
| Paper 2 | 1 hour 40 minutes | 1 hour 30 minutes |

Examination Format (Foundation)

| Paper | Booklet | Item Type | No of qns | Marks per qn | Total Marks | Duration |
|--------------------------------|---------|-----------------|-----------------|----------------------------|--------------------|----------------------------|
| 1 (Calculators not allowed) | A | Multiple-choice | 10 | 1 | 10 | 1 h |
| | | | 10 | 2 | 20 | |
| | B | Short-answer | 10 | 2 | 20 | |
| 2 (Calculators are allowed) | | Short-answer | 10 | 2 | 20 | 1 h 15 min (1 h) |
| | | Structured | 8 (6) | 3, 4, 5 (3 or 4) | 30 (20) | |
| Total | | | 48 | - | 100 (90) | 2 h 15 min (2 h) |

Changes in Format

| Section | Up to 2017 | New in 2018 |
|--|---|---------------------------------------|
| Paper 2 Structured / Long answer | 8 questions (3, 4 and 5 marks) | 6 questions (3 and 4 marks) |
| Both Papers | 48 questions | 46 questions |

Changes in Marks Allocation

| Section | Up to 2017 | New in 2018 |
|---------|------------------|-----------------|
| Paper 2 | 50 marks | 40 marks |
| Total | 100 marks | 90 marks |

Changes in Time Allocation

| Section | Up to 2017 | New in 2018 |
|---------|---------------------------|----------------|
| Paper 2 | 1 hour 15 minutes | 1 hour |
| Total | 2 hours 15 minutes | 2 hours |

Content (Mainstream)

- Whole numbers; Fractions; Decimals
- Ratio; Percentage
- Rate; Speed
- Algebra
- Measurement
- Geometry
- Statistics

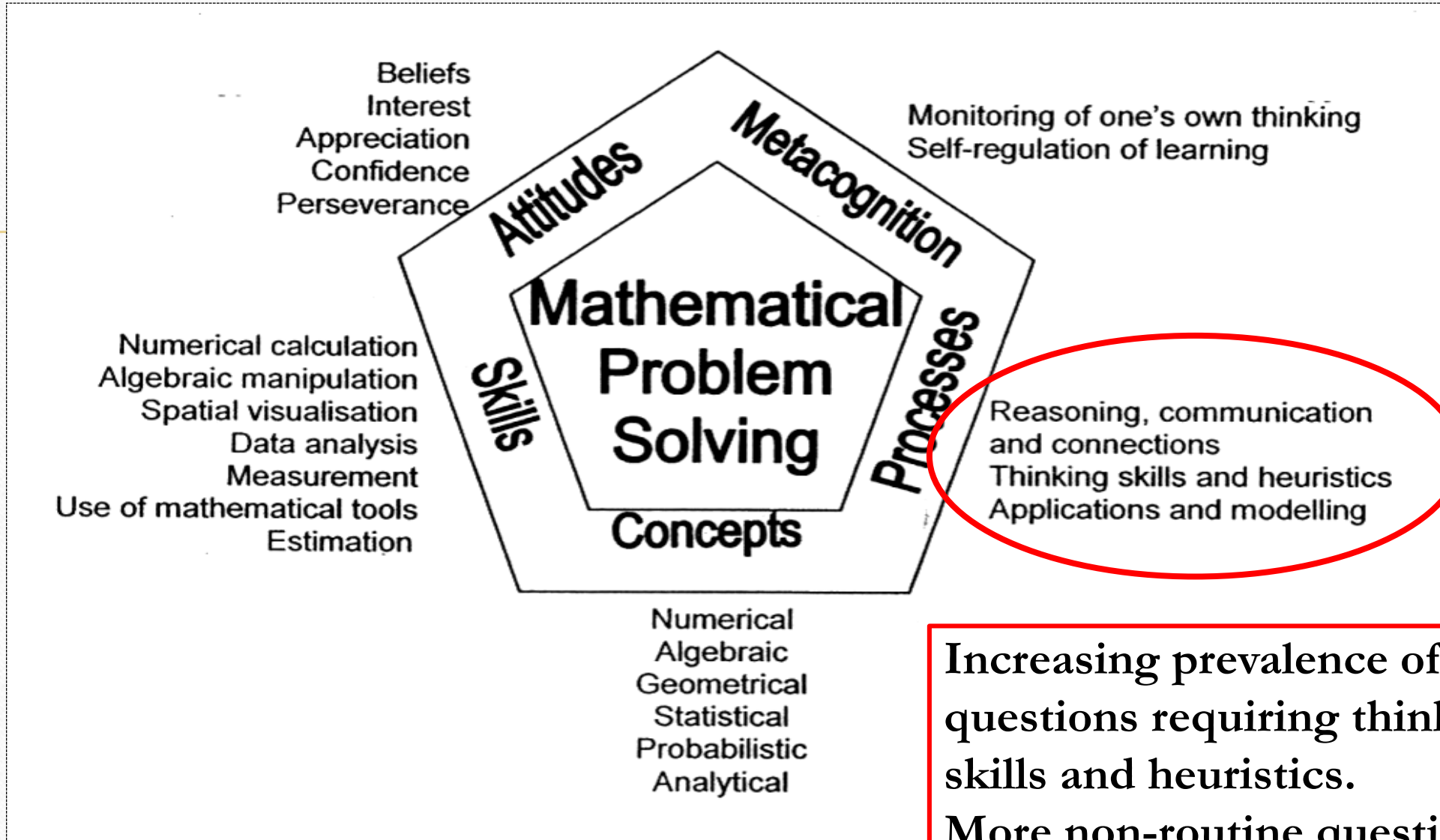
Minimal content changes.
Mainly movements.
Topic on Tessellation is
removed

Content (Foundation)

- Whole numbers; Fractions; Decimals
- Percentage
- Rate
- Measurement
- Geometry
- Statistics

Minimal content changes.
Mainly movements.
Topic on Tessellation is
removed

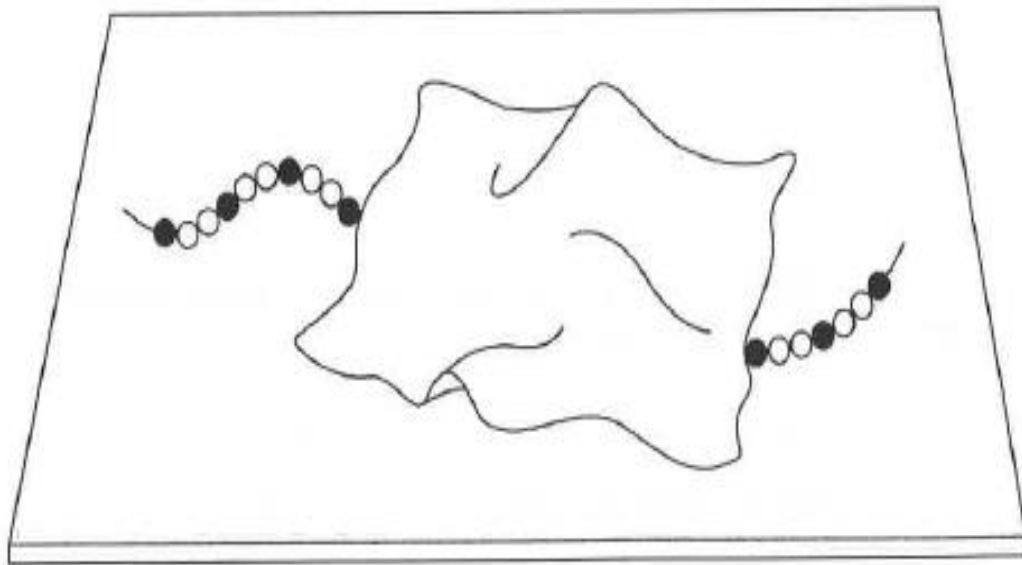
Singapore Mathematics Framework



Increasing prevalence of questions requiring thinking skills and heuristics.
More non-routine questions

Sample Question – Reasoning and /or Heuristics (listing)

A string of beads on a table is partly covered by a piece of cloth as shown. There are 2 white beads between every 2 black beads. Altogether, there are 14 black beads. What is the total number of white beads?



Reasoning: I can see a repeated pattern of 1 black and 2 whites. I can also see that the last black bead does not have white beads

$$14 - 1 = 13$$

$$13 \times 2 = \underline{26}$$

Sample Question – Thinking Skill and Reasoning

The average of three different 2-digit numbers is 25.

Of the three numbers, find the largest possible number.

$$25 \times 3 = 75$$

Thinking: If I want one of the numbers to be the largest possible, the other 2 numbers must be as small as possible.

Limitations: The other 2 numbers must be 2-digit numbers

Conclusion: I will choose 10 and 11 to be the other 2 numbers

$$75 - 10 - 11 = \underline{54}$$

Thank You