South Australian Investigating with Mathematics Competition 2024

GUIDELINES FOR 'PRESENTING THE INVESTIGATION'

1 AIM

- Purpose of investigating the topic
- What do you wish to achieve?

2 HYPOTHESIS

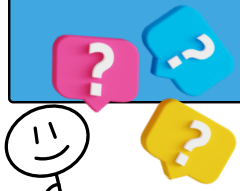
- What do you wish to predict and test?
- State the question you want to answer.

3 METHOD

- Explain the method that you choose to investigate your topic
- the mathematical processes you can use

4 DATA / CALCULATIONS

- Relevant mathematical tools used such as graphs, tables, technology ...



5 DISCUSSION

- Explain the results relating to your aim
- Explain the mathematical processes that have been used
- The significance and impact of your results
- State any assumptions that you may have made

6 CONCLUSION

- Explain how the investigation has been helpful to you
- What have you learnt?
- Have you discussed or explained any errors or exceptions?
- Are there further questions that could be asked?

7 ACKNOWLEDGEMENT

- List the people who may have helped you

8 REFERENCES

- List the sources of information that you have obtained

MATHEMATICAL CONCEPTS USED

Trial & error * Guessing, checking & improving * Gathering data * Drawings, diagrams & graphs * Working backwards * Looking for patterns * Simplyfiying the task * Comparing with similar situations * Elimination of possibilities * Using a list, table, materials and models * Acting it out * Writing an equation * Using a formula * Test conjecture

JSMEP | Years 7 to 10

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