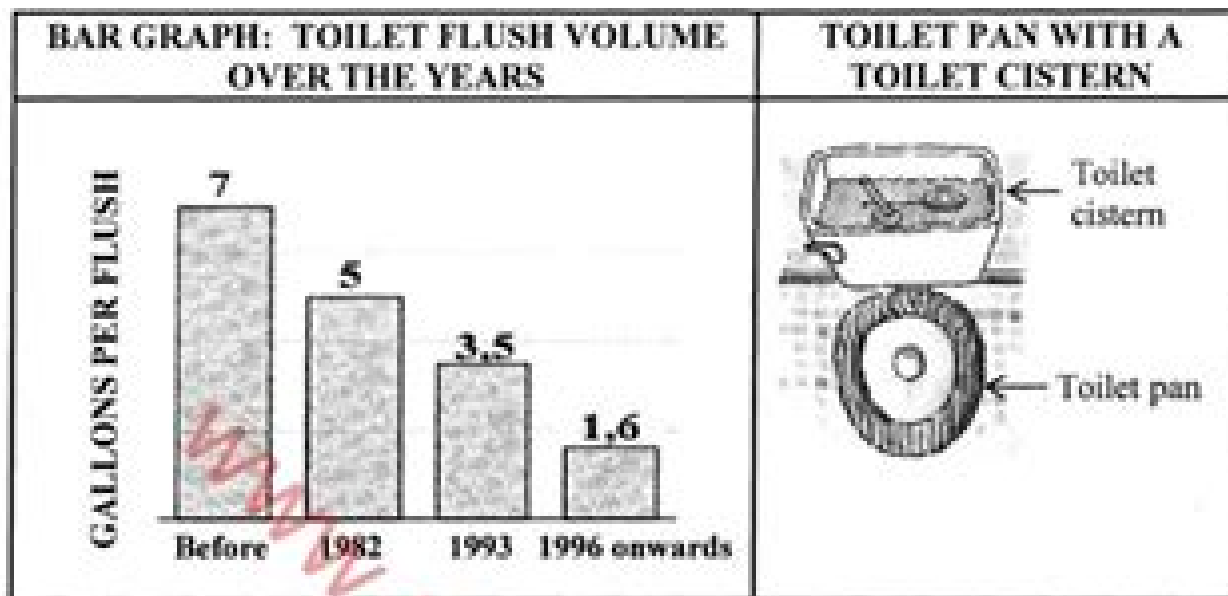


3.2

Water is a scarce resource in South Africa. The graph below shows how the volume of water in a toilet cistern has been reduced over the years. The picture next to the graph shows a toilet pan with a toilet cistern.



NOTE: 1 gallon = 3,785 litres

Use the information above to answer the questions that follow.

- 3.2.1 Calculate (in litres) the volume of water used during February 2022 by a family of five, if each person flushed the toilet an average FOUR times a day during the month. (3)
- 3.2.2 State ONE way in which a person can save water in this context. (2)

# Grade Maths Lit Final Exam Paper2 Scope Mindset

**R Bogdan**



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web oct 29 2021 i andr e weil's foundations of algebraic geometry 1946 and at approximately the same time i ultra algebraic approaches to aspects of at least the algebraic geometry of curves such as claude chevalley's introduction to the theory of algebraic functions of one variable without a picture in the book or even pictorial

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web algebraic number theory is a branch of number theory that uses the techniques of abstract algebra to study the integers rational numbers and their generalizations number theoretic questions are expressed in terms of properties of algebraic objects such as algebraic number fields and their rings of integers finite fields and function fields

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web algebraic number theory studies the arithmetic of algebraic number fields the ring of integers in the number field the ideals and units in the ring of integers the extent to which unique factorization holds and so on

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web authors frazer jarvis provides a self contained and easy to read introduction to algebraic number theory with minimal algebraic prerequisites introduces the theory of ideals in a historical context through the study of the failure of unique factorisation in number fields

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web a standard course in algebraic number theory discusses the proofs of the main results on integral bases discriminants dedekind rings class groups dirichlet's unit theorem etc in this semester i will instead concentrate on quadratic extensions of the rationals and of the rational function fields and introduce elliptic curves

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web course description this is the first semester of a one year graduate course in number theory covering standard topics in algebraic and analytic number theory at various points in the course we will make reference to material from other branches of mathematics including topology complex analysis representation theory and algebraic

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web zahlbericht namely lectures on the theory of algebraic numbers by erich hecke 5 this is the book from which i learned the subject although there are no exercises in it to mention andré weil again to improve on hecke in a treatise along classical lines of the theory of algebraic numbers would be a futile and impossible task