

5. Total surface area of a hemisphere is 4158cm^2 , the diameter of the hemisphere is equal to _____ cm.

- a. 40
- b. 20
- c. 21
- d. 42

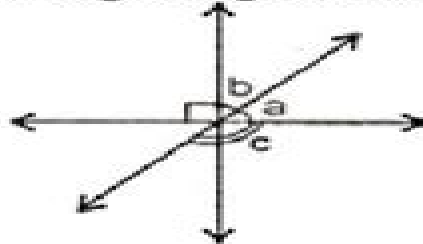
6. The number of zeros of the polynomial $x^2 + 4x + 2$ is/are:

- a. 1
- b. 2
- c. 3
- d. 4

7. A spherical balloon's radius increases to 3 times when the air is pumped in it. If the surface area of the balloon after pumping the air is A_2 and its surface area before pumping the air is A_1 , then what is the value of $A_1:A_2$?

- a. 1:3
- b. 9:1
- c. 27:1
- d. 1:9

8. In the given figure, if the angles a and b are in the ratio 2: 3, then angle c is:



- a. 90°
- b. 126°
- c. 144°
- d. 160°

9. The angles that share a common vertex and a common side are called

- a. Supplementary angles
- b. Complementary angles
- c. Adjacent angles
- d. Vertical angles

10. The cost of levelling a triangular field having sides 325m, 300m and 125 m at the rate of ₹2 per m^2 is:

- a. ₹ 37500
- b. ₹ 38000
- c. ₹ 36000
- d. 37000

11. Which of these statements do not satisfy Euclid's axiom?

- a. Things which are equal to the same thing are equal to one another
- b. If equals are added to equals, the wholes are equal.
- c. If equals are subtracted from equals, the remainders are equal.
- d. The whole is lesser than the part.



2014 Maths Q Paper September

**Shier Ju, Benedikt Löwe, Thomas
Müller, Yun Xie**



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Teaching Mathematics Creatively Linda Pound, Trisha Lee, 2015-04-24 This new and updated edition of Teaching Mathematics Creatively offers a range of strategies to enable trainee and practising teachers to take an innovative playful and creative approach to maths teaching It promotes creativity as a key element of practice and offers ideas to involve your students and develop knowledge understanding and enjoyment Exploring fresh approaches this text explains the role of play in bringing mathematics alive for children and teachers alike It identifies the power of story telling in supporting mathematical thinking examines cross curricular teaching and allows you to plan for teaching creatively Imaginative ideas underpinned by the latest research and theory include Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Giant maths how much food do you include on a giant shopping list Stimulating and accessible with contemporary and cutting edge practice at the forefront Teaching Mathematics Creatively includes a wealth of innovative ideas to enthuse teachers and enrich maths teaching This book is an essential purchase for any professional who wishes to embed creative approaches to teaching in their classroom

Cultures of Mathematics and Logic Shier Ju, Benedikt Löwe, Thomas Müller, Yun Xie, 2016-08-10 This book gathers the proceedings of the conference Cultures of Mathematics and Logic held in Guangzhou China The event was the third in a series of interdisciplinary international conferences emphasizing the cultural components of philosophy of mathematics and logic It brought together researchers from many disciplines whose work sheds new light on the diversity of mathematical and logical cultures and practices In this context the cultural diversity can be diachronical different cultures in different historical periods geographical different cultures in different regions or sociological in nature

The Art of Uncertainty David Spiegelhalter, 2025-03-04 Named a Best Book of the Year by Forbes and The Economist From our greatest living statistical communicator Tim Harford comes an invaluable data driven guide for understanding and learning to embrace risk and uncertainty in our daily lives How dangerous is our diet How much of sports falls into the realm of luck When authorities categorize a given event as highly likely how likely is that really Whether we re trying to decide if the benefits of a new medication are worth the chance of side effects or if artificial intelligence truly threatens humanity our lives are riddled with uncertainties both everyday and existential yet it can be difficult to know how to properly weigh all those unknowns Luckily for us renowned statistician David Spiegelhalter has spent his career dissecting data to resolve the apparently random and decode the many decisions we face with imperfect information In The Art of Uncertainty he shows how we can become better at dealing with what we don t know to make smarter choices in a world so full of puzzling variables In lucid lively prose Spiegelhalter guides us through the principles of probability illustrating how they can help us think more analytically about everything from medical advice to sports to climate change forecasts He demonstrates how taking a mathematical approach

to phenomena we might otherwise attribute to fate or luck can help us sort hidden patterns from mere coincidences better evaluate cause and effect and predict what's likely to happen in the future Along the way we learn how a misinterpretation of a probability contributed to the infamous Bay of Pigs fiasco why a ship twice the size of the Titanic sank without a trace and why we can be so confident that no two properly shuffled decks of cards have ever been in the same order Sparkling with wit and fascinating real world examples this is an essential guide to navigating uncertainty while also retaining the humility to admit what we don't or simply cannot know

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Conceptual Maths Peter Mattock, 2023-04-05 Written by Peter Mattock Conceptual Maths Teaching about rather than just how to do mathematics in schools aims to empower teachers to support students on a comprehensive and coherent journey through school mathematics Showcasing the best models metaphors and representations it provides excellent examples explanations and exercises that can be used across the curriculum Concepts are at the heart of the study of mathematics They are the ideas that remain constant whenever they are encountered but which combine and build upon each other to create the mathematical universe It is the structure of each concept that gives rise to the procedures that are used in calculation and problem solving and by learning about these structures a learner can make sense of how different processes work and use them flexibly as need demands In his first book Visible Maths Peter Mattock focused on the use of representations and manipulatives as images and tools and how this can provide a window into some of these mathematical structures His aim in Conceptual Maths is to go deeper beyond the procedures and to shed greater light on the structures of the subject's different concepts The book explores how a variety of visual tools and techniques can be used in the classroom to deepen pupils' understanding of mathematical structures concepts and operations including number addition and subtraction multiplication and multiples division and factors proportionality functionality measures accuracy probability shape and transformation and vectors among many others In so doing Peter equips teachers with the confidence and practical know how to help learners assimilate knowledge of mathematical concepts into their schema and take their learning to the next level Containing numerous full

colour diagrams and models to illustrate the conceptual takeaways and teaching techniques discussed Conceptual Mathsalso includes a glossary covering the key mathematical terms Suitable for teachers of maths in primary secondary and post 16 settings

Neither use nor ornament Tracey Potts,2024-06-18 Neither use nor ornament is a book about personal productivity narrated from the perspective of its obstacles clutter and procrastination It offers a challenge to the self help promise of a clutter free life lived in a permanent state of efficiency and flow The book reveals how contemporary projections of the good productive life rely on images of failure Riffing on the aphorism less is more a dominant refrain in present day productivity advice it tells stories about streamlining efficiency and tidiness over a time period of around 100 years By focusing on the shadows of productivity advice Neither use nor ornament seeks to unravel the moral narratives that hold individuals to account for their inefficiencies and muddles

Slurry Systems Handbook, Second Edition Baha Abulnaga,2021-03-05 A complete guide to slurries and slurry systems fully updated for the latest advances This thoroughly revised guide contains start to finish coverage of slurry systems from fundamentals and fluid mechanics to pump design and materials selection Written by a recognized expert in the field Slurry Systems Handbook Second Edition clearly explains the components dynamics and design of slurry systems for many applications including mineral processing nuclear waste processing extra heavy oil upgrade mineral concentrate transport tailings systems and metal melting You will get real world examples solved problems and current codes as well as guidelines for conducting feasibility studies and hands on operating procedures Coverage includes General concepts of slurry flows Multi species and stratified heterogeneous flows Non Newtonian slurry flows Open channel and cascade slurry flows Slurry Hammer and Transients in closed and open channels Centrifugal and positive displacement slurry pumps Long distance slurry pipelines by commodity such as coal copper phosphate or gold Oil sand extraction Slurry reactors hydrocracking and heat transfer Hydrocarbon and hydrate based slurry pipelines Semi solid metals casting Tailings systems paste backfilling Slurry flows for nuclear waste processing De silting hydroelectric reservoirs

The Tablet ,2004 The international Catholic weekly **Parliamentary Debates (Hansard).** Great Britain. Parliament. House of Commons,2013

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Practice Papers for SQA Exams Mike Smith,2016-09-19 Exam Board SQA Level National 5 Subject Maths First Teaching September 2013 First Exam Summer 2014 Practise for your SQA exams with three specially commissioned Hodder Gibson Practice Exam Papers with fully worked answers Practise with model papers written and checked by experienced markers and examiners Worked answers show how solutions are arrived at and where marks are gained Get extra advice with study skills guidance sections Avoid common mistakes with examiner tips A revision grid allows students to revise by topic

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