

1.  $(-3)^2 + (-2)^2$  is equal to  
 (A) -13  
 (B) -10  
 (C) 13  
 (D) 25
2. What percentage of 40 is 8?  
 (A) 5%  
 (B) 20%  
 (C) 32%  
 (D) 150%
3. If  $235 \times 48.7 = 11\,444.5$ , then  
 $23.5 \times 0.487 =$   
 (A) 11.4445  
 (B) 114.445  
 (C) 1 144.45  
 (D) 11 444.4
4. Using the distributive property,  
 $49 \times 17 + 49 \times 3 =$   
 (A)  $49 \times 20$   
 (B)  $49 + 20$   
 (C)  $52 \times 66$   
 (D)  $52 + 66$
5. A test was marked out of 80. A boy scored 60% of the marks on the test. How many marks did he score?  
 (A) 20  
 (B) 48  
 (C) 60  
 (D) 75
6. Dan sold 40 concert tickets in 5 days. Each day he sold 3 tickets MORE than the previous day. The number of tickets he sold on the third day is  
 (A) 8  
 (B) 9  
 (C) 10  
 (D) 11
7. Which of the following sets is defined by  $\{x \in \mathbb{Z} : -2 \leq x \leq 4\}$ ?  
 (A)  $\{1, 2, 3, 4\}$   
 (B)  $\{0, 1, 2, 3, 4\}$   
 (C)  $\{-1, 0, 1, 2, 3\}$   
 (D)  $\{-2, -1, 0, 1, 2, 3, 4\}$
8. If  $Q = \{a, b, c\}$ , how many subsets can be obtained from the set  $Q$ ?  
 (A)  $2 + 3$   
 (B)  $2 \times 3$   
 (C)  $3^2$   
 (D)  $2^3$
9. The set of positive integers is an example of  
 (A) a finite set  
 (B) an empty set  
 (C) an infinite set  
 (D) an improper set
10. If  $n(U) = 25$ ,  $n(A) = 14$ ,  $n(B) = 15$  and  $n(A \cap B) = 6$ , then  $n(A \cup B)$  is  
 (A) 2  
 (B) 19  
 (C) 23  
 (D) 29

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**B Lingard**



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The Mathematics Education for the Future Project. Proceedings of the 13th International Conference Mathematics Education in a Connected World Alan Rogerson, 2015-07-01 This volume contains the papers presented at the International Conference on Mathematics Education in a Connected World held from September 16-21 2015 in Catania Italy The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986

*Mathematical Intelligence* Mubeen Junaid, 2022-11-01 A fresh exploration into the human nature versus technology argument revealing an unexpected advantage that humans have over our future robot masters we're actually good at mathematics There's so much discussion about the threat posed by intelligent machines that it sometimes seems as though we should simply surrender to our robot overlords now But Junaid Mubeen isn't ready to throw in the towel just yet As far as he is concerned we have the creative edge over computers because of a remarkable system of thought that humans have developed over the millennia It's familiar to us all but often badly taught in schools and misrepresented in popular discourse math Computers are of course brilliant at totting up sums pattern seeking and performing mindless tasks of well computation For all things calculation machines reign supreme But Junaid identifies seven areas of intelligence where humans can retain a crucial edge And in exploring these areas he opens up a fascinating world where we can develop our uniquely human mathematical talents Just a few of the fascinating subjects covered in MATHEMATICAL INTELLIGENCE include Humans are endowed with a natural sense of numbers that is based on approximation rather than precise calculation Our in-built estimation skills complement the precision of computers Interpreting the real world depends on both What sets humans apart from other animals is language and abstraction We have an extraordinary ability to create powerful representations of knowledge more diverse than the binary language of computers Mathematics confers the most robust logical framework for establishing permanent truths Reasoning shields us from the dubious claims of pure pattern recognition systems All mathematical truths are derived from a starting set of assumptions or axioms Unlike computers humans have the freedom to break free of convention and examine the logical consequences of our choices Mathematics rewards our imagination with fascinating and on occasion applicable concepts that originate from breaking the rules Computers can be tasked to solve a range of problems but which problems are worth the effort Questioning is as vital to our repertoire of thinking skills as problem solving itself

*Neutrosophic Graph Theory and Algorithms* Smarandache, Florentin, Broumi, Said, 2019-10-25 Graph theory is a specific concept that has numerous applications throughout many industries Despite the advancement of this technique graph theory can still yield ambiguous and imprecise results In order to cut down on these indeterminate factors neutrosophic logic has emerged as an applicable solution that is gaining significant attention in solving many real-life decision-making problems that involve uncertainty impreciseness vagueness incompleteness inconsistency and indeterminacy However empirical research on this specific graph set is lacking Neutrosophic Graph Theory and Algorithms is a collection of

innovative research on the methods and applications of neutrosophic sets and logic within various fields including systems analysis economics and transportation While highlighting topics including linear programming decision making methods and homomorphism this book is ideally designed for programmers researchers data scientists mathematicians designers educators researchers academicians and students seeking current research on the various methods and applications of graph theory

**Counterparty Risk and Funding** Stéphane Crépey, Tomasz R. Bielecki, Damiano Brigo, 2014-06-23 Solve the DVA FVA Overlap Issue and Effectively Manage Portfolio Credit Risk Counterparty Risk and Funding A Tale of Two Puzzles explains how to study risk embedded in financial transactions between the bank and its counterparty The authors provide an analytical basis for the quantitative methodology of dynamic valuation mitigation and hedging of bilateral counterparty risk on over the counter OTC derivative contracts under funding constraints They explore credit debt funding liquidity and rating valuation adjustment CVA DVA FVA LVA and RVA as well as replacement cost RC wrong way risk multiple funding curves and collateral The first part of the book assesses today's financial landscape including the current multi curve reality of financial markets In mathematical but model free terms the second part describes all the basic elements of the pricing and hedging framework Taking a more practical slant the third part introduces a reduced form modeling approach in which the risk of default of the two parties only shows up through their default intensities The fourth part addresses counterparty risk on credit derivatives through dynamic copula models In the fifth part the authors present a credit migrations model that allows you to account for rating dependent credit support annex CSA clauses They also touch on nonlinear FVA computations in credit portfolio models The final part covers classical tools from stochastic analysis and gives a brief introduction to the theory of Markov copulas The credit crisis and ongoing European sovereign debt crisis have shown the importance of the proper assessment and management of counterparty risk This book focuses on the interaction and possible overlap between DVA and FVA terms It also explores the particularly challenging issue of counterparty risk in portfolio credit modeling Primarily for researchers and graduate students in financial mathematics the book is also suitable for financial quants managers in banks CVA desks and members of supervisory bodies

*Hello World* Hannah Fry, 2018-09-18 Shortlisted for the 2018 Baillie Gifford Prize and the 2018 Royal Society Investment Science Book Prize A beautifully accessible guide One of the best books yet written on data and algorithms Times UK If you were accused of a crime who would you rather decide your sentence a mathematically consistent algorithm incapable of empathy or a compassionate human judge prone to bias and error What if you want to buy a driverless car and must choose between one programmed to save as many lives as possible and another that prioritizes the lives of its own passengers And would you agree to share your family's full medical history if you were told that it would help researchers find a cure for cancer These are just some of the dilemmas that we are beginning to face as we approach the age of the algorithm when it feels as if the machines reign supreme Already these lines of code are telling us what to watch where to go whom to date and even whom to send to jail But as we rely on algorithms to

automate big important decisions in crime justice healthcare transportation and money they raise questions about what we want our world to look like What matters most Helping doctors with diagnosis or preserving privacy Protecting victims of crime or preventing innocent people being falsely accused Hello World takes us on a tour through the good the bad and the downright ugly of the algorithms that surround us on a daily basis Mathematician Hannah Fry reveals their inner workings showing us how algorithms are written and implemented and demonstrates the ways in which human bias can literally be written into the code By weaving in relatable real world stories with accessible explanations of the underlying mathematics that power algorithms Hello World helps us to determine their power expose their limitations and examine whether they really are improvement on the human systems they replace **Indian National Bibliography** B. S. Kesavan,2016-12

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web 4 2 5 1 cycle overview the stirling engine is named after rev robert stirling 1790 1878 of scotland who in 1816 patented a hot air engine comprised of all the elements that are also found in contemporary engines of this type walker 1980 stirling 1816 the engine was aimed at harvesting the energy carried by a stream of hot gases

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web 7 3 2 thin walled cylinders the analysis of a thin walled internally pressurised cylindrical vessel is similar to that of the spherical vessel the main difference is that the cylinder has three different principal stress values the circumferential stress the radial stress and the longitudinal stress

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web sep 25 2023 a thin cylinder is defined as a cylinder with a diameter that is substantially bigger than its wall thickness in other words a thin mechanical cylinder or vessel has a wall thickness that is less than  $\frac{1}{20}$  of its internal diameter

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web preview thin walled cylinders of cast iron with internal pressure calculator formula a for wall thickness of thin walled cylinders  $t$   $d$   $p$  2 s formula b for low pressure cylinders of cast iron such as are used for certain engine and press applications common use is  $t$   $d$   $p$  2500 0 3

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web thin wall cylinder objective to study the stress and strain developed in a thin wall cylinder under internal pressure to determine the poisson's ratio  $\nu$  and the young's modulus of elasticity  $E$  for the cylinder material apparatus fig 1 shows a thin walled cylinder of aluminum containing a freely supported piston

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web ton thin wall cylinders because the 14 ton thin wall cylinders contain the bulk of the duf6 inventory most calculations of



cylinder stresses due to handling have been done for that type of cylinder the present report documents as many of the cases done at oak ridge for 14 ton thin wall cylinders as possible giving results and a

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web thin walled structures comprise an important and growing proportion of engineering construction with areas of application becoming increasingly diverse ranging from aircraft automotive bridges ships oil rigs to storage vessels industrial buildings and warehouses many factors including cost and weight economy new materials and processes and the

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web consider now a simple spherical vessel of radius  $r$  and wall thickness  $b$  such as a round the accuracy of this result depends on the vessel being thin walled i.e.  $r \gg b$  at the inner cylinder now expands according to the difference  $p - p_c$  while

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web thin walled vessels are typically either spherical or cylindrical other geometries are possible but their complexity precludes their inclusion in this webpage spherical cylinder stress and deflection filled to depth  $d$  with liquid of density  $\rho$  force unit volume tangential edge support equation and calculator

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web in chapter 2 we examined the stresses in thin walled cylinders subjected to internal pressure the assumption of thin walls allowed us to develop a simple analysis that ignored the variation of radial stress when the wall thickness becomes appreciable in proportion

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web oct 12 2011 if the cylinder walls are thin and the ratio of the thickness to the internal diameter is less than about then it can be assumed that the hoop and longitudinal stresses are constant across the thickness it may also be assumed that the radial stress is small and can be neglected

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web a fluid container sealed by a piston is open c in this case an external axial force  $f_a$  is mandatory for equilibrium of the overall piston and cylinder assembly a bicycle pump is a common example if  $a_i$  is the internal circular area then a free body of either piston or cylinder end c must have  $f_a p_i a_i$  and there is no need for axial wall stresses to

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web the classic equation for hoop stress created by an internal pressure on a thin wall cylindrical pressure vessel is  $\sigma_\theta = p d / 2 t$  for the hoop stress thin wall pressure vessel hoop stress calculator where  $p$  is the internal pressure  $t$  is the wall thickness  $r$  is the inside radius of the cylinder

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web oct 9 2023 the development of the manufacturing process of thin walled and thick mounted cylinders which can largely improve the storage efficiency of hydrogen has also attracted considerable attention

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web when a thin walled tube or cylinder is subjected to internal pressure a hoop and longitudinal stress are produced in the wall for the thin walled equations below the wall thickness is less than  $1/20$  of tube or cylinder diameter hoop circumferential stress

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