

সময় — ২ ঘণ্টা ১০ মিনিট

সৃজনশীল প্রশ্ন

পূর্বমান — ৬০

[দ্রষ্টব্য : প্রতিটি বিভাগ হতে কমপক্ষে ১টি করে নিয়ে যে কোনো ৬টি প্রশ্নের উত্তর দাও। জান পার্থক্য সংখ্যা প্রশ্নের পূর্বমান জ্ঞাপক।]

ক-বিভাগ: পটীপশিত

১. নিম্নোক্ত সংখ্যাগুলো লক্ষ্য কর:

০, ৩, ৬, ১২, ২১, ৩৩, ....., .....

ক. উপরোক্ত তালিকার পর পর দুইটি সংখ্যা নির্ণয় কর। ২

খ. প্রাপ্ত প্যটিনটির পার্শ্বক থেকে ১২টি সংখ্যার একটি প্যটিন তৈরি কর এবং প্যটিনটির ইজপটিনটির প্রস্থটি দিও। ৪

গ. নতুন প্যটিনটির ১ম ১২০টি পদের যোগফল সূত্রের সাহায্যে নির্ণয় কর। ৪

২. একটি আয়তাকার বাগানের দৈর্ঘ্য প্রস্থের ত্রিগুণ এবং এর পরিসীমা ৯০ মিটার। বাগানের বাহিরে চতুর্ভুজের ১.৫ মিটার চতুর্ভুজ এবং ৫০০ সে.মি. পটীর একটি খাল খনন করা হল। প্রতি মিটার ১২.৫০ টাকা হিসাবে খালের চতুর্ভুজকে বেড়া দেওয়া হল।

ক. বাগানের দৈর্ঘ্য ও প্রস্থ নির্ণয় কর। ২

খ. খালের চতুর্ভুজকে বেড়া দিতে কত টাকা লাগবে? ৪

গ. খালে মোট কত লিটার পানি ধরবে? ৪

খ-বিভাগ: ইজপশিত

৩.  $x + \frac{1}{x} = 3$

ক.  $\left(x - \frac{1}{x}\right)^2$  এর মান নির্ণয় কর। ২

খ.  $x^4 - \frac{1}{x^4}$  এর মান কত? ৪

গ. প্রমাণ কর যে,  $x^4 + \frac{1}{x^4} = 123$  ৪

৪. কোনো জগাশেলের লবের সাথে ৭ বেশ করলে জগাশেলের মান ২ হয় এবং ৮ হতে ২ বিয়োগ করলে জগাশেলের মান ১ হয়।

ক. জগাশেলটিকে  $\frac{5}{y}$  করে সমীকরণ জোট পঠন কর। ২

খ. সমীকরণ জোটটিকে অপসারণ পদ্ধতিতে সমাধান করে  $(x, y)$  নির্ণয় কর। জগাশেলটি কত? ৪

গ. সমীকরণ জোটটির লেখ আঁকন করে  $(x, y)$  এর প্রাপ্ত মানের সমাজা খাড়াই কর। ৪

৫.  $U = \{x : x \in \mathbb{N} \text{ এবং } x < 10\}$ ,  $A = \{x : x \in \mathbb{N} \text{ এবং } x \text{ জোড় সংখ্যা}\}$

$B = \{x : x \in \mathbb{N} \text{ এবং } 4 < x < 9\}$  এবং  $C = \{2, 3, 4, 5\}$

ক. A ও B সেটদ্বয়কে তালিকা পদ্ধতিতে দিও। ২

খ. দেখাও যে,  $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$  ৪

গ. প্রমাণ কর যে,  $(A \cap B)' = A' \cup B'$  ৪

গ-বিভাগ: জ্যামিতি

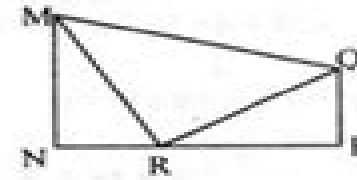
৬. একটি সামান্তরিকের দুইটি কর্ণ ৪ সে.মি. ও ৬ সে.মি. এবং এর একটি বাহু ১ সে.মি।

ক. প্রাপ্ত তথ্যগুলো ডিগ্রির মাধ্যমে প্রকাশ কর। ২

খ. অঙ্কনের বিবরণসহ সামান্তরিকটি অঁক। ৪

গ. সামান্তরিকের অপর বাহু ৫ সে.মি. হলে এর পরিসীমার সমান পরিসীমা বিশিষ্ট একটি ত্রমূল অঁক, যার একটি কোণ  $75^\circ$ । ৪

৭.



ডিগ্রি  $MN = PR = 6$ ,  $NR = PQ = 8$  এবং  $MR = 10$

ক. উক্ত ক্ষেত্রটিতে যে কোন তিনটি চতুর্ভুজ ক্ষেত্রের নাম লেখ। ২

খ. যদি  $\triangle MNR$ -এ  $MR^2 = MN^2 + NR^2$  হয় তবে দেখাও যে,  $\angle MNR = 90^\circ$  হবে। ৪

গ. দেখাও যে,  $\angle RQP = 90^\circ$  হলে,  $\triangle MRQ$  সমকোণী হবে। ৪

৮. O কেন্দ্র বিশিষ্ট ABCD একটি বৃত্ত। জ্যা AB = জ্যা CD।

ক. উদ্দেশ্য অনুযায়ী চিহ্নিত ডিগ্রি আঁকন কর। ২

খ. প্রমাণ কর যে, বৃত্তের সকল সমান জ্যা কেন্দ্র থেকে সমদূরবর্তী। ৪

গ. যদি AB ও CD সমান জ্যার পরস্পরকে ছেদ করে তবে দেখাও যে, এদের একটি অংশের অপরটির অংশদ্বয়ের সমান। ৪

ঘ-বিভাগ: পরিসংখ্যান

৯. ৫০ জন শিক্ষার্থীর পশ্চিতে প্রাপ্ত নম্বরের সারণি নিচে দেওয়া হলো:

প্রাপ্ত নম্বর	০১-৪০	৪১-৫০	৫১-৬০	৬১-৭০	৭১-৮০	৮১-৯০
পদসংখ্যা	৬	৮	১০	১০	৮	৮

ক. ক্রমবোজিত সারণি তৈরি কর। ২

খ. সারণি থেকে গড় নির্ণয় কর। ৪

গ. উপরোক্তগুলো হতে আয়তলেখ অঁক। ৪

# Hsc 2015 Math Suggestion

**Lyn Baker**



## **Hsc 2015 Math Suggestion:**

**The Insider's Guide to the Colleges, 2015** Staff of the Yale Daily News, 2014-07-01 With this new edition The Insider's Guide to the Colleges has been for 41 years the most relied upon resource for high school students looking for honest reports on colleges straight from the college students themselves Having interviewed hundreds of their peers on more than 330 campuses and by getting the inside scoop on everything from the nightlife and professors to the newest dorms and wildest student organizations the reporters at the Yale Daily News have created the most candid college guide ever In addition to the in depth profiles this edition has been updated to include Essential statistics for every school from acceptance rates to popular majors A College Finder to help students zero in on the perfect school All new FYI sections with student opinions and outrageous advice The Insider's Guide to the Colleges cuts through the glossy Web sites and brochures to uncover the things that matter most to students and by staying on top of trends it gives both students and their parents the straightforward information they need to choose the school that's right for them [Unlocking the Power of Teacher Feedback](#) Lan

Yang, Ming Ming Chiu, Zi Yan, 2024-02-15 This volume addresses the pivotal role of feedback in enhancing students motivation and learning Through a series of innovative studies it uncovers the intricacies of how students perceive and utilize feedback offering practical strategies for educators while bridging the gap between feedback research and classroom practice The book showcases six outstanding studies that offer unique insights into how teacher feedback influences student learning and achievement all from the perspectives of students Chapters delve into various meaningful explorations of the paramount role of feedback in education offering readers profound insights into its pivotal significance the nuanced ways students respond to it and the intricate mechanisms governing its influence on student achievement and engagement The volume uncovers key mediators such as growth oriented goals feedback beliefs and school identification shedding light on how these factors shape the impact of feedback It also introduces practical strategies like rebuttal writing and emphasizes the need for personalized feedback aligned with students cognitive styles Additionally the book provides a comprehensive comparison across grades and feedback comments all while serving as a practical guide for educators researchers and policymakers thereby facilitating the implementation of evidence based feedback practices grounded in students voices and perspectives ultimately enriching their learning This book will be a key resource for researchers and academics in educational psychology student learning and assessment while also appealing to educators teachers school administrators and policymakers seeking to enhance their understanding of feedback's role in education and to improve their feedback practices It was originally published in Educational Psychology [Knowledge-building](#) Karl Maton, Susan Hood, Suellen Shay, 2015-10-08 Education and knowledge have never been more important to society yet research is segmented by approach methodology or topic Legitimation Code Theory or LCT extends and integrates insights from Pierre Bourdieu and Basil Bernstein to offer a framework for research and practice that overcomes segmentalism This book shows how LCT can be used to build knowledge about education and

society Comprising original papers by an international and multidisciplinary group of scholars Knowledge building offers the first primer in this fast growing approach Through case studies of major research projects Part I provides practical insights into how LCT can be used to build knowledge by enabling dialogue between theory and data in qualitative research bringing together quantitative and qualitative methodologies in mixed methods research relating theory and practice in praxis conducting interdisciplinary studies with systemic functional linguistics Part II offers a series of studies of pressing issues facing knowledge building in education and beyond encompassing diverse subject areas including physics English cultural studies music and design educational sites schooling vocational education and higher education practices of research curriculum pedagogy and assessment both education and informal learning contexts such as museums and masonic lodges Carefully sequenced and interrelated these chapters form a coherent collection that gives a unique insight into one of the most thought provoking and innovative ways of building knowledge about knowledge building in education and society to have emerged this century This book is essential reading for all serious students and scholars of education sociology and linguistics

*Student Success with Less Stress* Carlton R.V. Witte, 2019-12-11 Young people want to know how they can be successful and do so without being stressed Adults in their lives want to help The principles presented in this book provide students with powerful tools to help meet the challenges they face today It also gives parents potent suggestions on how they can support their children to be successful academically and socially with less stress Being educated is more than academics Educated students have learned success principles not taught in the typical classroom Educated students are less prone to stress and generally happier This book will show youth how to be truly educated Some of the tips in *Student Success with Less Stress* include Proven motivational and success principles Dynamic study strategies Mega learning What schools do not teach Memorizing made easy Classroom strategies for the extra edge Reducing stress and anxiety Overcoming roadblocks to achievement How to be a great leader How parents can support and respond Learning differences and how to access special education programs Maneuvering the college search and application process Paying for college Our education system and students at risk and what can be done

**Supporting Children and Their Families Facing Health Inequities in Canada** Miriam J. Stewart, 2021-07-20 Bridging information gaps on health inequities faced by vulnerable children adolescents and families in Canada this book informs readers of the key tools to promote productive fulfilling lives of people managing prevalent health challenges

**PC Magazine** ,1995 **Forthcoming Books** Rose Arny, 1998-06 **Science Citation Index** ,1993 Vols for 1964 have guides and journal lists **Who's who in America** ,2003 Scientific and Technical Books and Serials in Print ,1989 Success One Mathematics 2015 Edit, 2015-03-10 Excel Success One HSC mathematics contains 1992 2014 past HSC questions with detailed answers written by experienced HSC markers a Topic Index a Mark Maximizer Guide and more This book helps you get the results you want by practising actual HSC papers and answering HSC level questions

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