# Mathematics (Basic) SET – 3 (Q.P. Code 430/2/3)

$$2a + 7 \cdot 3 = 25 \Rightarrow 2a + 21 = 25$$
  
 $\Rightarrow 2a = 25 - 21 \Rightarrow 2a = 4$   
 $\Rightarrow a = 2$   
So, the sum of its first 'n' terms =  $\frac{n}{2}[2a + (n-1)d]$   
=  $\frac{n}{2}[2 \cdot 2 + (n-1)3]$   
=  $\frac{n}{2}[4 + 3n - 3]$   
=  $\frac{n}{2}[3n + 1]$ 

#### OR

33(B). If the sum of the first p terms of an A.P. is the same as the sum of its first q terms, (p ≠ q), then show that the sum of its first (p + q) terms is zero.

#### Explanation:

Given 
$$S_p = S_q$$
  

$$\Rightarrow \frac{p}{2} (2a + (p - 1)d) = \frac{q}{2} (2a + (q - 1)d)$$

$$\Rightarrow p(2a + (p - 1)d) = q(2a + (q - 1)d)$$

$$\Rightarrow 2ap + p^2 d - pd = 2aq + q^2 d - qd$$

$$\Rightarrow 2a(p - q) + (p + q)(p - q)d - d(p - q) = 0$$

$$\Rightarrow (p - q)[2a + (p + q)d - d] = 0$$

$$\Rightarrow 2a + (p + q)d - d = 0$$

$$\Rightarrow 2a + ((p + q)d - d) = 0$$

$$\Rightarrow S_{p+q} = 0$$

**34(a).** From the top of a building 60~m high, the angles of depression of the top and bottom of a tower are observed to be  $30^{\circ}$  and  $60^{\circ}$  respectively. Find the height of the tower. Also, find the distance between the building and the tower. (Use  $\sqrt{3}=1.732$ )

Answer: 40 m and 34.641 m

#### Explanation:

Let AC be the tower and BE be the building. Let height of the tower be hm. It is given that the angles of depression of the top C and bottom A of the tower, observed from top of the building be  $30^{\circ}$  and  $60^{\circ}$  respectively.

# **Mathematics 2013 Question Paper Grade 10 Caps**

**Mosiuoa Sekese** 

### **Mathematics 2013 Question Paper Grade 10 Caps:**

The Complete Book of Colleges, 2013 Edition Princeton Review,2012-08-07 Profiles every four year college in the United States providing detailed information on academic programs admissions requirements financial aid services housing athletics contact names and campus life Annual Report Mpumalanga (South Africa). Department of Education,2014

<u>Twenty-Twenty Hindsight</u> Mosiuoa Sekese, 2013-05-16 Twenty twenty hindsight means perfect understanding of events only after they have happened In his book Mosiuoa Sekese looks back on his life in the old and new South Africa and gives his own perceptive interpretation of the past events Sekese suffered discrimination and prejudice under the old apartheid government as well as the new democratic regime His story is highly personal but provides the reader with unique insights into the social and educational challenges that South Africa continues to grapple with I had a quick read and I find the content heartbreaking but fascinating Especially as a white South African you are drawing me into a world that I always knew existed but which few people have the guts and conviction to paint into words Louise Heystek Emerton CEO Wordwise Pedagogy in Poverty Ursula Hoadley, 2017-08-09 As South Africa transitioned from apartheid to Khuluma Awethu democracy changes in the political landscape as well as educational agendas and discourse on both a national and international level shaped successive waves of curriculum reform over a relatively short period of time Using South Africa as a germane example of how curriculum and pedagogy can interact and affect educational outcomes Pedagogy in Poverty explores the potential of curricula to improve education in developing and emerging economies worldwide and ultimately to reduce inequality Incorporating detailed empirical accounts of life inside South African classrooms this book is a much needed contribution to international debate surrounding optimal curriculum and pedagogic forms for children in poor schools Classroom level responses to curriculum policy reforms reveal some implications of the shifts between a radical progressive approach and traditional curriculum forms Hoadley focuses on the crucial role of teachers as mediators between curriculum and pedagogy and explores key issues related to teacher knowledge by examining the teaching of reading and numeracy at the foundational levels of schooling Offering a data rich historical sociology of curriculum and pedagogic change this book will appeal to academics researchers and postgraduate students in the fields of education sociology of education curriculum studies educational equality and school reform and the policy and politics of education **Normal Instructor and Teachers World** ,1924 **Drawing for Science Education** Phyllis Katz, 2017-03-23 This book argues for the essential use of drawing as a tool for science teaching and learning The authors are working in schools universities and continual science learning CSL settings around the world They have written of their experiences using a variety of prompts to encourage people to take pen to paper and draw their thinking sometimes direct observation and in other instances their memories The result is a collection of research and essays that offer theory techniques outcomes and models for the reader Young children have provided evidence of the perceptions that they have accumulated from families and the media before they reach

classrooms Secondary students describe their ideas of chemistry and physics Teacher educators use drawings to consider the progress of their undergraduates understanding of science teaching and even their moral ethical responses to teaching about climate change Museum visitors have drawn their understanding of the physics of how exhibit sounds are transmitted A physician explains how the history of drawing has been a critical tool to medical education and doctor patient communications Each chapter contains samples insights and where applicable analysis techniques The chapters in this book should be helpful to researchers and teachers alike across the teaching and learning continuum The sections are divided by the kinds of activities for which drawing has historically been used in science education An instance of observation Audubon Linnaeus A process how plants grow over time what happens when chemicals combine Conceptions of what science is and who does it Images of identity development in science teaching and learning Mathematics Anne Eadie, 2021 Nach Ungarn! ,1850 Mathematics ,2012 Study and Master Mathematics Grade 10 CAPS Study Guide Noleen Jakins, Deirdre Yeo, 2015-05-22

The Top Books of the Year Mathematics 2013 Question Paper Grade 10 Caps The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have charmed audiences this year. Mathematics 2013 Question Paper Grade 10 Caps: Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Mathematics 2013 Question Paper Grade 10 Caps: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic: Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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