

Applications & Interpretation SL › Paper 2

Questions: 5 | Time: 90min | Marks: 80

Question 1

[Maximum mark: 13]

On September 1st, an orchard commences the process of harvesting 36 hectares of apple trees. At the end of September 4th, there were 30 hectares remaining to be harvested, and at the end of September 8th, there were 24 hectares remaining. Assuming that the number of hectares harvested each day is constant, the total number of hectares remaining to be harvested can be described by an arithmetic sequence.

1. Find the number of hectares of apple trees that are harvested each day. [3]
2. Determine the number of hectares remaining to be harvested at the end of September 1st. [1]
3. Determine the date on which the harvest will be complete. [2]

In 2021 the orchard sold their apple crop for \$220 000. It is expected that the selling price will then increase by 3.2% annually for the next 7 years.

4. Determine the amount of money the orchard will earn for their crop in 2026. Round your answer to the nearest dollar. [3]
5.
 1. Find the value of $\sum_{n=1}^8 (220\,000 \times 1.032^{n-1})$. Round your answer to the nearest integer.
 2. Describe, in context, what the value in part (c) (i) represents. [3]
6. Comment on whether it is appropriate to model this situation in terms of a geometric sequence. [1]

May 2013 Math SI Paper 2

Michael Hoelscher



May 2013 Math SI Paper 2:

May 2013 Math Sl Paper 2: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "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 masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. May 2013 Math Sl Paper 2 : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling 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 evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling 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 thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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