

COMP1000: WEB, SPREADSHEETS & DATABASES

1.0 EXCEL

1.1 INTRODUCTION, FORMULAS AND FUNCTIONS

WHY USE SPREADSHEETS?

- Makes tasks easier, faster and more accurate
- Automatically recalculates if data changes
- Easy creation of charts

ABSOLUTE VS. RELATIVE REFERENCE (USE F4 TO TOGGLE)

- Absolute: Cell reference remains unchanged e.g. \$B\$3
- Relative: Cell reference adjusts during copy operations e.g. B3
- Mixed: Uses a single \$ sign to make the column or row absolute, leaving the other as relative e.g. \$B3 or B\$3

NAMING RANGES

- Range names used to identify a cell range to make formulas easier to read
- Must begin with letter or underscore
- Contains letters, digits, period or underscore
- Right click on selected range > Define Name
- 'Name Manager' in Formulas tab can be used to maintain them

PMT

Calculates periodic (monthly) payment for a loan with fixed interest rate and term length

=PMT(interest rate, periods, principal)

- Interest rate: yearly rate divided by period
- Periods: years x payments per year (period)
- Principal: present value aka amount of loan

TESTING/DEBUGGING/AUDITING SPREADSHEETS

Very easy to make mistakes so you must thoroughly test your solutions for things like ...

- Invalid or missing data in a cell
- Formula is replaced by a constant in a cell
- Incorrect cell references in a formula

Tips:

- Test for different input values — use borderline cases and abnormal input values
- Use an alternative method (say by hand or using a different approach) to compute few answers
- Try to keep input, processing and output regions of your spreadsheet separate
- Use IF statements, Conditional formatting, Statistical functions, etc. to locate errors

Debugging using cell selection:

- 'Go to special' to locate cells with blanks, formulas, constants, etc.
- Locate cells that are 'different' in a given range

Debugging using tracing:

- Formulas > Trace precedents



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Wenbin Ji



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Comp 1 2014 Study Guide Version: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching 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 triumph. Uncover the Best : Taylor Jenkins Reid's "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. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Comp 1 2014 Study Guide Version : 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 weaves 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 engaging 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 brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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