

1. A sample of 50 electric light bulbs was tested for length of life, and the results were:

Hours	80	81	82	83	84	85	86
No. of bulbs	1	5	11	18	8	4	3

Calculate the mean length of life.  
 $\sum x = 80 + 405 + 902 + 1494 + 672 + 340 + 258 = 4151$   
 $\frac{4151}{50} = 83.02$  hours

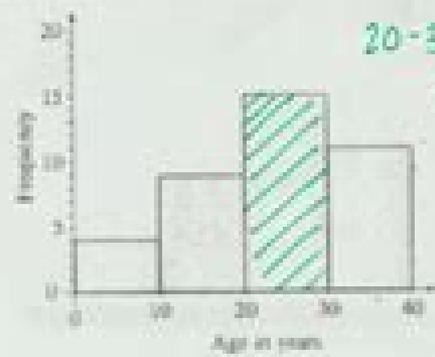
It only lasted 3 days!



Well we could make bulbs that would last for years. But we wouldn't stay in business long then!



2. Find the modal class for this distribution.



20-30 years (highest frequency)

3. The shoe sizes of 20 students are given in the table:

Shoe size	4	5	6	7	8	9
No. of students	1	1	4	6	6	2

$n = 20$   
 Cumulative frequency: 1, 2, 6, 12, 18, 20  
 What is the median size?  
 Median location:  $\frac{n+1}{2} = \frac{20+1}{2} = 10.5^{\text{th}}$  position  
 $\therefore$  median is size 7

4. Here are the amounts that eight friends have managed to save over the course of a year:

\$23, \$31, \$1602, \$58, \$39, \$31, \$33, \$23  
 $\bar{x} = 230$

- (a) What was the mean amount saved?  $\frac{23+31+1602+58+39+31+33+23}{8} = 230$
- (b) Find the median. location:  $\frac{n+1}{2} = \frac{8+1}{2} = 4.5^{\text{th}}$  position.  $\frac{31+33}{2} = 32$
- (c) Which of your answers to parts (a) and (b) is not a good indicator of the average savings?  $\bar{x}$  = mean

Why? Between  $\bar{x}$  and  $\bar{m}$ , 230 (mean) DOES NOT show a good indicator of average savings because there is an extreme value of 1602 that greatly affected the mean.

5. Here are the prices charged in eight different shops for a new watch strap:

\$9, \$4, \$3, \$5, \$6, \$9, \$3, \$9  
 $\bar{x} = 5.5$

- (a) Work out the median price.  $\bar{m} = 5.5$
- (b) Find the mode. mode = 9
- (c) What is the mean price?  $\bar{x} = 6$
- (d) Which of your answers to parts (b) and (c) is not a good indicator of the average price of a new watch strap? Why? Mode is NOT a good indicator of the average price of a new watch strap.

# Classwork Ms Ongs Math Class

**LL Leslie**



**Classwork Ms Ongs Math Class:**

Classwork Ms Ongs Math Class: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. Classwork Ms Ongs Math Class : Colleen Hoover "It Ends with Us" This poignant 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. Classwork Ms Ongs Math Class : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating 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. Classwork Ms Ongs Math Class : 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, captivating 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 Pape, 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 an exceptional and gripping 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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**Table of Contents Classwork Ms Ongs Math Class**

1. Understanding the eBook Classwork Ms Ongs Math Class
  - The Rise of Digital Reading Classwork Ms Ongs Math Class
  - Advantages of eBooks Over Traditional Books
2. Identifying Classwork Ms Ongs Math Class
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Classwork Ms Ongs Math Class
  - User-Friendly Interface
4. Exploring eBook Recommendations from Classwork Ms Ongs Math Class
  - Personalized Recommendations
  - Classwork Ms Ongs Math Class User Reviews and Ratings
  - Classwork Ms Ongs Math Class and Bestseller Lists
5. Accessing Classwork Ms Ongs Math Class Free and Paid eBooks
  - Classwork Ms Ongs Math Class Public Domain eBooks
  - Classwork Ms Ongs Math Class eBook Subscription Services
  - Classwork Ms Ongs Math Class Budget-Friendly Options
6. Navigating Classwork Ms Ongs Math Class eBook Formats
  - ePub, PDF, MOBI, and More
  - Classwork Ms Ongs Math Class Compatibility with Devices
  - Classwork Ms Ongs Math Class Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Classwork Ms Ongs Math Class
  - Highlighting and Note-Taking Classwork Ms Ongs Math Class
  - Interactive Elements Classwork Ms Ongs Math Class
8. Staying Engaged with Classwork Ms Ongs Math Class

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Classwork Ms Ongs Math Class
9. Balancing eBooks and Physical Books Classwork Ms Ongs Math Class
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Classwork Ms Ongs Math Class
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Classwork Ms Ongs Math Class
- Setting Reading Goals Classwork Ms Ongs Math Class
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Classwork Ms Ongs Math Class
- Fact-Checking eBook Content of Classwork Ms Ongs Math Class
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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