

# ZIMSEC O LEVEL MATHEMATICS

## QUESTION PAPERS 4008

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#### ZIMSEC O Level Mathematics Question Papers 4008

The Zimbabwe School Examinations Council (ZIMSEC) sets and administers O Level Mathematics exam papers under the code 4008. These papers assess students' proficiency in various mathematical concepts and skills. Let's explore some sample questions and answers from these papers.

**Question:** Find the value of  $x$  that satisfies the equation  $2x + 5 = 13$ .

**Answer:** Subtracting 5 from both sides of the equation, we get:  $2x = 13 - 5$   
 $2x = 8$   
Dividing both sides by 2, we find:  $x = 4$

**Question:** A farmer has 1000 chickens. He sells 25% of them and buys 150 new chickens. How many chickens does he have now?

**Answer:** Step 1: Find the number of chickens he sells:  $1000 * 25\% = 250$  chickens  
Step 2: Find the total number of chickens after selling:  $1000 - 250 = 750$  chickens  
Step 3: Add the new chickens:  $750 + 150 = 900$  chickens  
Therefore, the farmer now has 900 chickens.

**Question:** A rectangular garden has a length of 12 m and a width of 8 m. Find the area of the garden.

**Answer:** The area of a rectangle is given by the formula:  $\text{Area} = \text{length} \times \text{width}$   
*Substituting the given values, we get:*  $\text{Area} = 12 \text{ m} \times 8 \text{ m}$   
 $\text{Area} = 96$  square meters

**Question:** Solve the inequality  $x - 5 < 2$ .

**Answer:** Adding 5 to both sides of the inequality, we get:  $x - 5 + 5 < 2 + 5$   $x < 7$   
Therefore, the values of x that satisfy the inequality are less than 7.

**Question:** A car travels 240 km in 4 hours. What is the average speed of the car in km/h?

**Answer:** The average speed is calculated as:  $\text{Speed} = \text{Distance traveled} / \text{Time taken}$   
Substituting the given values, we get:  $\text{Speed} = 240 \text{ km} / 4 \text{ h}$   $\text{Speed} = 60 \text{ km/h}$   
Therefore, the average speed of the car is 60 km/h.

### **Zaregoto Book 2: The Kubishime Romanticist**

**Q: What is Zaregoto about?** A: Zaregoto is a Japanese light novel series written by Nisio Isin and illustrated by Take. The story follows a high school student named li-chan, who is known for his eccentric personality and sharp mind. He becomes involved in a series of bizarre and supernatural events, including a murder mystery and a battle with a demon.

**Q: What is Book 2: The Kubishime Romanticist about?** A: Book 2 of Zaregoto focuses on li-chan's investigation into the murder of a high school girl named Mekakushi-san. The case is complicated by the involvement of several other students, each with their own secrets and motives. As li-chan digs deeper, he uncovers a twisted and sinister plot that threatens to expose the true nature of the supernatural world.

**Q: Who are the main characters in Book 2?** A: The main characters in Book 2 are:

- li-chan: A high school student with a unique personality and an extraordinary mind.
- Mekakushi-san: A high school girl who is murdered under mysterious circumstances.
- Akane-chan: A quiet and shy girl who is one of li-chan's classmates.
- Akashi-kun: A popular and athletic student who is one of Mekakushi-san's friends.
- Shiki-san: A beautiful and secretive girl who is involved in the supernatural world.

**Q: What are the themes of Book 2?** A: Book 2 explores themes such as the nature of truth, the consequences of deception, and the power of the human mind. It also delves into the darker aspects of the supernatural world and the forces that control it.

**Q: Is Book 2 a good read?** A: Book 2 is a highly acclaimed installment in the Zaregoto series. It is known for its complex and engaging plot, its well-developed characters, and its thought-provoking themes. Fans of mystery, supernatural, and psychological fiction will find much to enjoy in this novel.

**What happened to BJ Novak?** During and after *The Office*, Novak continued to act in television and films like *Inglorious Bastards*, *Saving Mr. Banks*, *The Founder*, and *The Mindy Project*. He also published a short story collection *One More Thing: Stories and Other Stories* and *The Book with No Pictures* for children.

**What episodes of The Office did BJ Novak write?** In addition to starring as Ryan, Novak was a Co-Executive Producer for the series and wrote many of the show's most memorable episodes, including "Diversity Day," "Sexual Harassment," "The Fire," "Initiation," "Safety Training," "Local Ad," and "Happy Hour."

**Are Mindy Kaling and BJ Novak a thing?** More Than Friendship "We kind of fell in love through [writing for the show], and then dated on and off for a couple of years, and now we are just, like, best friends," Kaling told *Vulture* in 2012. "Like, real best friends."

**What does bj novak stand for?** Benjamin Joseph Manaly "B.J." Novak (born July 31, 1979) is an American actor, stand-up comedian, screenwriter, and director. He is best known for being a writer and co-executive producer for and playing the role of Ryan Howard on the US version of *The Office*.

**Did B.J. Novak and John Krasinski grow up together?** They were classmates and fellow graduates of Newton South's Class of 1997 where they honed a friendship and professional relationship. They began working together when Novak provided Krasinski his first big break at Newton South as the star of a satirical high school play written and cast by Novak.

**Are Mindy and B.J. Novak still together?** "We are pretty inseparable best friends with a lot of chemistry ourselves, and we're not dating. Whenever we date anyone

else, I think there's a period when the person is very skeptical of our friendship," he said. "Everyone seems to think you two might be a couple, and I don't mean to get in the way.

**Did B.J. Novak and John Krasinski know each other before The Office?** John Krasinski and B.J. Novak are best known from their roles as Jim Halpert and Ryan Howard in the hit NBC show "The Office." But, before they were stars, Krasinski and Novak were childhood friends in their hometown of Newton, Massachusetts.

**Did B.J. Novak quit The Office?** Under the new terms, he would be made an executive producer midway through Season 7, and would direct two episodes. He left The Office after the ninth-season premiere, "New Guys", but returned to guest-star in the series' final episode.

**Who wrote most of The Office episodes?** Kaling, who was the only woman on the writing staff when she joined The Office as a writer and performer, wrote more episodes than anyone else, racking up two dozen over her tenure. One of her co-writers and costars was Novak, whom she dated both in real life and on the show.

**How did Mindy Kaling lose weight?** I run or hike 20 miles a week and I lift weights. It's a big commitment for me. I basically live in workout clothes so I can get it in." In June 2023, the Never Have I Ever creator took to Instagram on her 44th birthday to "acknowledge that [she is] happy."

**Why is Mindy Kaling so rich?** These Days She's Making \$8.5 Million a Year HBO Max's The Sex Lives of College Girls and Netflix's Never Have I Ever are earning Mindy a huge amount thanks to that sweet, sweet, streaming money. Which brings us to her overall deal with Warner Bros. Television.

**Did Ryan and Kelly date in real life?** The Office star B.J. Novak reveals that the tumultuous Ryan and Kelly dynamic on the hit sitcom was actually inspired by his real-life relationship with costar Mindy Kaling.

**Did B.J. Novak graduate from Harvard?** Vengeance star B.J. Novak was a Harvard student long before his role in The Office. Novak graduated from the university in 2001 with a degree in English and Spanish literature.

**How long did Mindy Kaling date B.J. Novak?** Still, Novak, who dated Kaling from 2004 to 2007, understands the confusion their unusually close relationship can cause.

**How old was Mindy in The Office?** When Kaling joined The Office, she was 24 years old and was the only woman on a staff of eight. She took on the role of Kelly Kapoor, debuting in the series' second episode, "Diversity Day". Her TV appearances include a 2005 episode of Curb Your Enthusiasm, playing Richard Lewis's assistant.

**Is Steve Carell friends with John Krasinski?** Though they've kept in touch, they hadn't seen each other in several years, which made the reunion even more special. When Carell came in to do voiceover work for IF, Krasinski said the actor gave "the greatest brother speech about how proud he was of me and how much he loved the script."

**Did Rainn Wilson get along with John Krasinski?** Rainn Wilson Calls John Krasinski His 'Incredibly Talented, Big-Hearted Brother' as The Office Costars Reunite.

**When did John Krasinski get big?** John Krasinski (born October 20, 1979, Newton, Massachusetts, U.S.) is an American actor, director, and screenwriter who first garnered attention for his portrayal of paper salesman Jim Halpert in the NBC sitcom The Office (2005–13).

**Is BJ Mindy's baby daddy?** Mindy told Marie Claire that the rumors didn't bother her because B.J. is her kids' godfather and is very close to them, but stopped short of giving any credence to the idea he was their father-father.

**Who does Mindy end up marrying?** (Season 6, Episode 1-Season 6, Episode 2) Mindy and Ben are married, but never spend any time together.

**Who was Mindy's first boyfriend?** Tommy Dewey as Josh Daniels, a lawyer and Mindy's ex-boyfriend.

**Did John Krasinski and B.J. Novak grow up together?** B.J. Novak and John Krasinski are known for their roles on "The Office," but they knew each other as

students at Newton South High School in Massachusetts.

**Are Rainn and John friends in real life?** Their characters famously competed with each other at all times, with Jim often pranking Dwight. However, in real life, the two actors get along very well.

**Did everyone in The Office cast get along?** Other cast members have also denied any major feuds on the set, although like any workplace, there were likely occasional disagreements and tensions between coworkers.

**Why did Jim Carrey quit The Office?**

**Did Will Ferrell quit The Office?** Production. "The Inner Circle" marked Will Ferrell's fourth and last appearance on The Office.

**Why did Steve Carell leave The Office so abruptly?** The reasons behind this include Carell wanting to spend more time with his family, but also the network not contacting Carell about renewing his contract. Continuing The Office without Steve Carell's Michael Scott was a big mistake, as the series went downhill without featuring the most important character of the show.

**Who is the father of mechanical machine?**

**What is the synopsis of mechanics of machines?** The subject Mechanics of Machines may be defined as that branch of Engineering science which deals with the study of relative motion between the various parts of a machine and forces which act on these parts due to constrained motion.

**Who is the godfather of mechanical engineering?** James Watt is often coined the father of mechanical engineering because it was that particular invention that gave way to many more important developments of the industrial revolution and beyond. His invention was also central in the development of the profession of mechanical engineering.

**Which machine is called father of all machines?** The engine lathe, as the horizontal metal-turning machine is commonly called, is the most important of all the machine tools. It is usually considered the father of all other machine tools because many of its fundamental mechanical elements are incorporated into the design of

other machine tools.

**Who is the father of mechanics?** Isaac Newton is popularly remembered as the man who saw an apple fall from a tree, and was inspired to invent the theory of gravity. If you have grappled with elementary physics then you know that he invented calculus and the three laws of motion upon which all of mechanics is based.

**What is a mechanism in mechanics of machines?** According to the definition, both forces and motions are transmitted and modified in a machine. The way in which the parts of a machine are interconnected and guided to produce a required output motion from a given input motion is known as the mechanism of the machine.

**What is the law of machine in mechanics?** When we are using a machine to lift a weight, the work done is governed by the Law of Machine, which states that when on a machine (p) an effort is applied It has to be equal to the weight (w) of the load it will be lifting. Hence,  $p = mw + c$  where m and c are positive constants of the machine.

**Who invented the mechanical machine?** The first mechanical calculating machine was made by Blaise Pascal.

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**Who is the father of machining?** Henry Maudslay (pronunciation and spelling) (22 August 1771 – 14 February 1831) was an English machine tool innovator, tool and die maker, and inventor. He is considered a founding father of machine tool technology. His inventions were an important foundation for the Industrial Revolution.

**Who is the father of machine?** Charles Babbage invented the machine called the Analytical Engine, which is a model of today's computers.

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