

SOAL UN MATEMATIKA SMP MTS 2016 DAN PEMBAHASAN PART 3

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Soal UN Matematika SMP/MTs 2016 dan Pembahasan (Part 3)

Pertanyaan 1: Sebuah bak mandi berbentuk kubus memiliki panjang rusuk 60 cm. Berapa liter air yang dapat ditampung oleh bak mandi tersebut?

Jawaban: Volume kubus = (panjang rusuk)³ = (60 cm)³ = 216.000 cm³

1 cm³ = 1 mL, jadi: Volume bak mandi = 216.000 mL = 216 liter

Pertanyaan 2: Sebuah kerucut memiliki jari-jari alas 7 cm dan tinggi 24 cm. Berapa volume kerucut tersebut?

Jawaban: Volume kerucut = $\frac{1}{3} \pi r^2 t = \frac{1}{3} \pi (7 \text{ cm})^2 (24 \text{ cm}) = \frac{1}{3} \pi (49 \text{ cm}^2) (24 \text{ cm}) = 2352 \pi \text{ cm}^3 \approx 7391 \text{ cm}^3$

Pertanyaan 3: Sebuah limas memiliki alas berbentuk persegi dengan panjang sisi 10 cm. Jika tinggi limas tersebut 12 cm, berapa luas permukaan limas?

Jawaban: Luas permukaan limas = Luas alas + Luas selimut
Luas alas = (panjang sisi)² = (10 cm)² = 100 cm²

Luas selimut = $\frac{1}{2} \times \text{keliling alas} \times \text{tinggi} = \frac{1}{2} \times 4 \times 10 \text{ cm} \times 12 \text{ cm} = 240 \text{ cm}^2$

Luas permukaan limas = 100 cm² + 240 cm² = 340 cm²

Pertanyaan 4: Sebuah prisma segitiga memiliki panjang 10 cm, lebar 8 cm, dan tinggi 12 cm. Jika prisma tersebut diisi air hingga penuh, berapa volume air yang diperlukan?

Jawaban: Volume prisma = panjang x lebar x tinggi = 10 cm x 8 cm x 12 cm = 960 cm³

Pertanyaan 5: Sebuah tabung memiliki jari-jari alas 14 cm dan tinggi 20 cm. Berapa luas permukaan tabung?

Jawaban: Luas permukaan tabung = $2\pi r(r + t) = 2\pi (14 \text{ cm})(14 \text{ cm} + 20 \text{ cm}) = 2\pi (14 \text{ cm})(34 \text{ cm}) = 1848\pi \text{ cm}^2 \approx 5802 \text{ cm}^2$

Stacker Reclaimer Maintenance: A Comprehensive Guide

Maintaining stacker reclaimers is crucial for ensuring their optimal performance and longevity. Here are some frequently asked questions and answers about stacker reclaimer maintenance:

1. How often should stackers and reclaimers be inspected?

Daily visual inspections are recommended to identify any potential issues. Thorough inspections should be conducted monthly or as per the manufacturer's guidelines.

2. What are the key components to inspect?

Focus on the bucket wheel, conveyor belts, gearboxes, hydraulic systems, electrical components, and any structural damage.

3. What are the common maintenance tasks required?

Regular maintenance includes lubrication, belt tensioning, gearbox oil changes, hydraulic system inspections, electrical checks, and cleaning.

4. How do I extend the life of my stacker reclaimer?

Proper operation, preventive maintenance, and prompt repairs can significantly extend the equipment's lifespan. Avoid overloading, use high-quality lubricants, and monitor wear and tear closely.

5. When should I seek professional maintenance?

Complex repairs, major overhauls, or specialized inspections require the expertise of qualified technicians. It is advisable to contact the manufacturer or an authorized service provider for such tasks.

By adhering to a regular maintenance schedule and attending to any necessary repairs promptly, you can maximize the efficiency, safety, and longevity of your stacker reclaimers. Regular maintenance not only prevents costly breakdowns but also ensures the equipment operates at its peak performance for years to come.

Why Gender Matters: Essential Insights for Parents and Teachers

by Leonard Sax

In his groundbreaking book, "Why Gender Matters," Dr. Leonard Sax delves into the emerging science of sex differences, revealing the profound impact gender has on our development, behavior, and well-being. Here are some key questions and answers from the book that every parent and educator should consider:

Q: How do boys and girls differ in brain structure and function?

A: Research shows significant differences in the brain sizes and connectivity patterns of boys and girls. Males tend to have larger brains, while females have more connections between brain hemispheres. These differences influence cognitive abilities, such as spatial reasoning and verbal fluency.

Q: Why are boys more likely to engage in physical risk-taking?

A: Testosterone levels play a role in risk-taking behavior, which is higher in boys than girls. Additionally, boys' brains process fear and reward differently, making them more susceptible to impulsive decisions.

Q: How do girls and boys differ in their emotional expression?

A: Girls tend to express emotions more openly and frequently than boys. This is due to differences in brain chemistry and socialization patterns. Boys are often encouraged to suppress their emotions, which can lead to emotional challenges later in life.

Q: Why are boys more likely to have learning disabilities?

A: Boys are 1.5 times more likely than girls to have learning disabilities, such as dyslexia and ADHD. This is partly due to the fact that boys develop language skills at a slower pace and are more likely to have difficulty with fine motor coordination.

Q: What can parents and teachers do to support gender differences?

A: Understanding gender differences is essential for creating supportive and inclusive environments. Parents can encourage their children to explore their interests and strengths, regardless of gender stereotypes. Teachers can adapt their teaching methods to meet the unique learning styles of boys and girls.

In conclusion, the emerging science of sex differences provides valuable insights into the differences between boys and girls. By recognizing and respecting these differences, parents and teachers can empower children to reach their full potential and create a more understanding and inclusive society.

The Interview: English Edition

Question: How can I prepare effectively for an interview in English?

Answer: Prepare thoroughly by researching the company and position, practicing answering common interview questions, and improving your English proficiency. Engage in conversation practice, listen to native English speakers, and seek feedback to enhance your fluency and pronunciation.

Question: What are some common interview questions asked in English?

Answer: Expect questions about your skills, experience, qualifications, and reasons for applying. Questions may include: "Tell me about yourself," "Why are you interested in this position?" and "What are your strengths and weaknesses?" Prepare concise and tailored answers that highlight your suitability for the role.

Question: How should I dress for an interview in English?

Answer: Dress professionally and appropriately for the industry and company culture. Consider the dress code of the organization and aim for a semi-formal or

business casual attire. Maintain a well-groomed appearance and pay attention to details such as clean shoes and neat hair.

Question: What are some tips for answering interview questions in English?

Answer: Be clear, concise, and confident in your responses. Use specific examples to support your claims and provide evidence of your skills and experience. Practice active listening to ensure you understand the question and answer accordingly. Maintain eye contact and speak at a moderate pace with proper pronunciation.

Question: How can I follow up after an interview in English?

Answer: Express gratitude for the interviewer's time by sending a personalized thank-you email within 24 hours. Reaffirm your interest in the position and provide any additional information or insights that may strengthen your candidacy. Follow up politely if you don't receive a response within the expected time frame.

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