# SOAL DAN PEMBAHASAN UJIAN NASIONAL MATEMATIKA SMP MTS

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# Soal dan Pembahasan Ujian Nasional Matematika SMP/MTs

### Soal 1

Sebuah balok berukuran panjang 10 cm, lebar 8 cm, dan tinggi 5 cm. Hitunglah volume balok tersebut!

#### Pembahasan:

Rumus volume balok:  $V = p \times I \times t V = 10 \text{ cm} \times 8 \text{ cm} \times 5 \text{ cm} V = 400 \text{ cm}^3$ 

#### Soal 2

Sebuah prisma alas segitiga siku-siku memiliki alas berukuran 8 cm dan 6 cm, serta tinggi 10 cm. Hitunglah luas permukaan prisma tersebut!

#### Pembahasan:

Luas permukaan prisma:  $L = 2 \times (luas alas + luas selimut)$ 

- Luas alas = (1/2) × alas × tinggi = (1/2) × 8 cm × 6 cm = 24 cm<sup>2</sup>
- Luas selimut = (alas + lebar) × tinggi = (8 cm + 6 cm) × 10 cm = 140 cm<sup>2</sup> L = 2 × (24 cm<sup>2</sup> + 140 cm<sup>2</sup>) L = 332 cm<sup>2</sup>

#### Soal 3

Seorang petani memiliki lahan seluas 500 m². Lahan tersebut ditanami jagung dengan jarak antar tanaman 50 cm. Jika setiap tanaman membutuhkan luas 1 m²,

berapa banyak tanaman jagung yang dapat ditanam di lahan tersebut?

Pembahasan:

Konversi luas lahan: 500 m² = 500.000 cm² Luas tanaman yang dibutuhkan: 1 m² =

10.000 cm² Jumlah tanaman jagung: = Luas lahan / Luas tanaman yang dibutuhkan

 $= 500.000 \text{ cm}^2 / 10.000 \text{ cm}^2 = 50 \text{ tanaman}$ 

Soal 4

Sebuah kereta api bergerak dengan kecepatan 80 km/jam. Berapa jarak yang

ditempuh kereta api dalam waktu 2 jam?

Pembahasan:

Konversi kecepatan: 80 km/jam = 80.000 m/jam Jarak = Kecepatan × Waktu =

 $80.000 \text{ m/jam} \times 2 \text{ jam} = 160.000 \text{ m}$ 

Soal 5

Sebuah lingkaran memiliki keliling 28? cm. Hitunglah luas lingkaran tersebut!

Pembahasan:

Rumus keliling lingkaran: K = 2?r Rumus luas lingkaran: L =?r<sup>2</sup> 28? cm = 2?r r = 14

cm L =  $? \times (14 \text{ cm})^2 \text{ L} = 196? \text{ cm}^2$ 

Soalan KBAT Sains UPSR: Menguji Kemahiran Berfikir Aras Tinggi

Soalan KBAT (Kemahiran Berfikir Aras Tinggi) dalam Sains UPSR direka untuk

menilai keupayaan murid memahami konsep sains secara mendalam dan

mengaplikasikan pengetahuan mereka kepada situasi kehidupan sebenar. Soalan-

soalan ini menguji kemahiran murid berfikir secara kritis, kreatif, dan inovatif.

1. Soalan KBAT: Aplikasi Konsep

Soalan:

Apakah yang akan berlaku jika kita meletakkan ais di dalam air panas?

Jawapan:

Ais akan mencair dan berubah menjadi air kerana air panas mempunyai suhu yang

lebih tinggi daripada ais.

2. Soalan KBAT: Analisis

Soalan:

Seorang murid menjalankan eksperimen untuk menguji pertumbuhan kacang. Dia

menanam kacang dalam dua bekas yang berbeza, satu dengan tanah dan satu lagi

dengan air. Hasilnya menunjukkan bahawa kacang dalam tanah tumbuh lebih tinggi

daripada kacang dalam air. Apakah faktor lain yang mungkin mempengaruhi

pertumbuhan kacang?

Jawapan:

Jumlah cahaya matahari

Kandungan nutrien dalam tanah

Kualiti air

3. Soalan KBAT: Penilaian

Soalan:

Sebuah syarikat menghasilkan sejenis deodoran baharu yang mendakwa dapat

menghentikan peluh selama 24 jam. Apakah cara terbaik untuk menguji dakwaan

ini?

Jawapan:

• Melakukan ujian klinikal dengan sekumpulan peserta

• Melakukan ujian makmal menggunakan peralatan khusus

4. Soalan KBAT: Sintesis

Soalan:

Bagaimana kita boleh menggunakan tenaga solar untuk menghasilkan elektrik?

Terangkan prosesnya.

Jawapan:

• Panel solar menangkap sinar matahari dan menukarkannya menjadi tenaga

elektrik

• Tenaga elektrik yang dihasilkan disimpan dalam bateri

• Bateri membekalkan kuasa kepada peralatan dan peranti

5. Soalan KBAT: Kreativiti

Soalan:

Reka dan terangkan rancangan untuk menunjukkan cara kerja sistem peredaran

darah manusia.

Jawapan:

Menunjukkan pam jantung dengan menggunakan picagari

Menggunakan hos dan injap untuk menunjukkan saluran darah

Menggunakan cecair berwarna sebagai darah

**Word Search Puzzles: 6 Frequently Asked Questions** 

Word search puzzles are a popular pastime enjoyed by people of all ages. While

they may seem simple, there are a few common questions that often arise about

these mind-boggling games. Here are the answers to 6 frequently asked questions

about word search puzzles:

1. What is the objective of a word search puzzle?

The objective of a word search puzzle is to find and circle all of the hidden words

listed in a separate box. The words can be hidden horizontally, vertically, or

diagonally, and they can read forward or backward.

2. How do you find words in a word search puzzle?

To find words in a word search puzzle, start by scanning the grid for the first letter of

the word you're looking for. Once you find the first letter, follow the path of the word

until you reach the end. If you get stuck, try scanning the grid in different directions.

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3. What is a blackout word search puzzle?

A blackout word search puzzle is a variation on the traditional word search where the

goal is to circle all of the letters in the grid that make up the hidden words. Once all

of the letters are circled, the grid will be "blacked out."

4. What is the best way to solve a word search puzzle?

There are a few different strategies that can help you solve a word search puzzle

more efficiently. One strategy is to start with the shorter words and work your way up

to the longer ones. Another strategy is to focus on specific sections of the grid at a

time.

5. What are the benefits of solving word search puzzles?

Solving word search puzzles can provide a number of benefits, including:

Improved vocabulary

Enhanced problem-solving skills

Increased attention to detail

Reduced stress and improved mood

Conclusion

Word search puzzles are a great way to challenge your mind and have some fun. By

following these tips, you can improve your chances of success and enjoy the many

benefits that these puzzles have to offer.

Toto IV: Wikipedia

What is Toto IV?

Toto IV is the fourth studio album by American rock band Toto, released in 1982. It

was the band's most commercially successful album, selling over six million copies

worldwide.

What are the notable songs from Toto IV?

The album spawned several hit singles, including "Rosanna," "Africa," and "I Won't Hold You Back." These songs are known for their catchy melodies, intricate harmonies, and memorable lyrics.

# What are some of the critical accolades received by Toto IV?

Toto IV received critical acclaim for its musicianship, songwriting, and production. It won six Grammy Awards, including Album of the Year and Record of the Year for "Rosanna." The album is also considered one of the greatest soft rock albums of all time.

# What was the inspiration behind the album?

Toto IV was inspired by a variety of sources, including jazz, pop, classical, and R&B. The band members drew on their diverse musical backgrounds to create a cohesive and eclectic album.

# What is the legacy of Toto IV?

Toto IV remains one of the most iconic albums of the 1980s. It showcased the band's versatility and songwriting prowess. The album's hit singles continue to be played on radio stations around the world and have been covered by numerous artists. Toto IV has had a lasting impact on the music industry and is considered a classic of rock music.

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