



奧冠教育中心

OLYMPIAD CHAMPION EDUCATION CENTRE

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泰國國際數學競賽初賽 2020 - 2021

**THAILAND INTERNATIONAL  
MATHEMATICAL OLYMPIAD  
HEAT ROUND 2020 - 2021**

小學二年級 Primary 2

時限：90 分鐘

Time allowed: 90 minutes

試題

Question Paper

考生須知：

**Instructions to Contestants:**

1. 本卷包括 試題 乙份，試題紙不可取走。

Each contestant should have ONE Question-Answer Book which CANNOT be taken away.

2. 本卷共 5 個範疇，每範疇有 5 題，共 25 題，每題 4 分，總分 100 分，答錯不扣分。

There are 5 exam areas and 5 questions in each exam area. There are a total of 25 questions in this Question-Answer Book. Each carries 4 marks. Total score is 100 marks. No points are deducted for

請以最簡形式填寫答案，若計算結果是分數，請確保為真分數或帶分數，或將計算結果寫成小數。錯誤單位將不給予任何分數。

Write down the answer in the simplest form. If the calculation result is a fraction, please write down the answer as a proper or mixed fraction, decimal figure is also accepted. Marks will NOT be given for incorrect unit.

請將答案寫在 **答題紙** 上。

All answers should be written on the ANSWER SHEET.

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incorrect answers.

3. 請將答案寫在 **答題紙** 上。

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4. 比賽期間，不得使用計算工具。

NO calculators can be used during the contest.

5. 本卷中所有圖形不一定依比例繪成。

All figures in the paper are not necessarily drawn to scale.

6. 比賽完畢時，本試題會被收回。

This Question-Answer Book will be collected at the end of the contest.

本試題不可取走。

**THIS Question-Answer Book CANNOT BE TAKEN AWAY.**

未得監考官同意，切勿翻閱試題，否則參賽者將有可能被取消資格。

**DO NOT** turn over this Question-Answer Book without approval of the examiner.

Otherwise, contestant may be **DISQUALIFIED**.

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Open-Ended Questions (1<sup>st</sup> ~25<sup>th</sup>) (4 points for correct answer, no penalty point for wrong answer)

Logical Thinking

1. According to the pattern shown below, what is the English alphabet in the space provided?

Berdasarkan pola di bawah ini, huruf apakah yang seharusnya ada pada “ \_\_\_ ”?

G \ I \ L \ N \ \_ \ ....

2. 23 children form a column. There are 8 children behind Alice. How many child(ren) is / are in front of her?

23 anak membentuk sebuah barisan. Terdapat 8 anak di belakang Alice. Berapa banyak anak yang ada di depan Alice?

3. When Edward was born, mum was 27 years old. Brother was born 1 year later. When mum is 46 years old, how old will brother be?

Ketika Edward lahir, Ibu berusia 27 tahun. Adik Edward lahir 1 tahun kemudian. Ketika Ibu berusia 46 tahun, berapakah usia Adik Edward?

4. What is the value of the number to represent “?” in the following table?

Berapakah bilangan yang seharusnya diisi pada “?” ?

1	2	2
3	4	12
5	6	30
7	8	?

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8. Find the value of  $11+13+15+17+19+21+23+25$ .

**Carilah nilai dari**  $11+13+15+17+19+21+23+25$ .

9. Find the value of  $12\div 5+9\div 5+17\div 5-3\div 5$ .

**Carilah nilai dari**  $12\div 5+9\div 5+17\div 5-3\div 5$ .

10. Find the value of  $12\times 5\times 5\times 15\times 2$ .

**Carilah nilai dari**  $12\times 5\times 5\times 15\times 2$ .

### Number Theory

11. The numbers below follow the arithmetic sequence, what is the sum of the 6<sup>th</sup> number and the 9<sup>th</sup> number?

**Bilangan-bilangan di bawah ini mengikuti sebuah baris aritmatika, berapakah hasil penjumlahan bilangan ke-6 dan ke-9?**

$99, 92, 85, 78, 71, \dots$

12. Fill the lines with ‘+’ and ‘-’ to make the equation below correct. (Write down the complete equation on the answer sheet)

**Isilah “\_” dengan ‘+’ dan ‘-’ untuk membuat persamaan di bawah ini menjadi benar. (Tuliskan persamaan ini dengan lengkap pada lembar jawaban)**

$$23 \quad \underline{\quad} \quad 7 \quad \underline{\quad} \quad 11 \quad \underline{\quad} \quad 3 \quad = \quad 22$$

13. Determine the result of  $7\times 8+8\times 9+9\times 10-1\times 1-2\times 2-3\times 3$  is odd or even number.

**Tentukan apakah hasil dari  $7\times 8+8\times 9+9\times 10-1\times 1-2\times 2-3\times 3$  adalah bilangan ganjil atau genap?**

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14. What is the smallest 3-digit number that can be divisible by 7 and 4?

Berapakah bilangan 3-angka terkecil yang dapat dibagi 7 dan 4?

15. If  $A$ ,  $B$  and  $C$  are both 1-digit numbers, find the value of  $A + B + C$ .

Jika  $A$ ,  $B$  dan  $C$  adalah bilangan 1-angka, carilah nilai dari  $A + B + C$ .

$$\begin{array}{r} \phantom{+} \phantom{A} \phantom{6} \phantom{2} \\ \phantom{+} \phantom{A} \phantom{6} \phantom{2} \\ + \phantom{A} \phantom{6} \phantom{2} \\ \hline A \phantom{6} \phantom{2} \end{array}$$

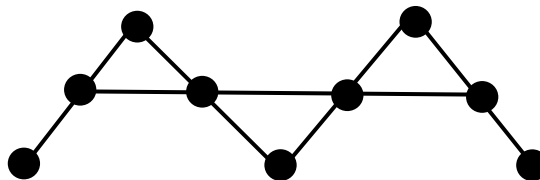
Question 15

Soal No. 15

Geometry

16. How many line segment(s) is / are there in the figure below?

Berapa banyak ruas garis yang ada pada gambar di bawah ini?



Question 16

Soal No. 16

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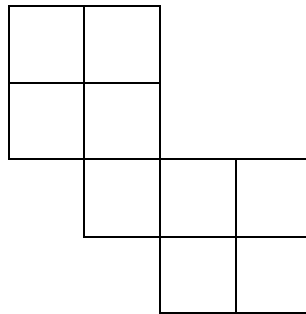
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17. A prism has 27 edges, how many face(s) does this prism have?

**Sebuah prisma mempunyai 27 rusuk, berapa banyak sisi yang dimiliki oleh prisma ini?**

18. How many square(s) is / are there in the figure below?

**Berapa banyak bujursangkar yang ada pada gambar di bawah ini?**

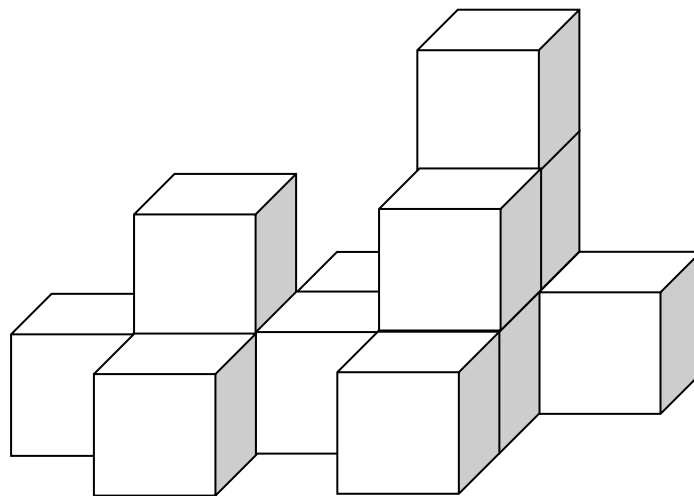


Question 18

**Soal No. 18**

19. At least how many square(s) can be seen if viewing the figure below from top?

**Setidaknya berapa banyak bujursangkar terlihat jika melihat bangun ini dari atas?**



Question 19

**Soal No. 19**

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20. At most how many different triangle(s) can be formed by adding 4 lines on a circle?

Paling banyak ada berapa segitiga berbeda yang dapat terbentuk dengan menambahkan 4 garis pada sebuah lingkaran?

### Combinatorics

21. How many 3-digit number(s) having the units digit that is larger than hundredth digit is / are there?

Ada berapa banyak bilangan 3-angka yang mempunyai angka satuan yang lebih besar dari angka ratusannya?

22. According to the following answers, how many 2-digit number(s) is / are there?

Pada jawaban-jawaban di bawah ini, berapa banyak bilangan 2-angka yang ada?

$$2 \times 4, 42 \div 7, 36 \div 3, 7 \times 2, 9 \times 9, 39 \div 3, 72 \div 9$$

23. What is the greatest 4-digit number by using 0, 2, 4, 6 and 9? (Each number can only be used once)

Berapakah bilangan 4-angka terbesar yang dapat dibentuk dengan menggunakan : 0, 2, 4, 6 dan 9? (Setiap angka hanya dapat digunakan satu kali).

24. There are 4 different flavors of ice-cream. Now mixing 3 scoops to make a 3 ball ice-cream. How many different type(s) of 3 ball ice-cream is / are there? (Strawberry - strawberry - chocolate will be counted the same as strawberry - chocolate - strawberry)

Terdapat 4 rasa es krim yang berbeda. Sekarang campurkan 3 sendok untuk membuat bola es-krim. Berapa banyak jenis rasa bola es-krim yang ada? (Stroberi – stroberi – coklat akan dihitung sama dengan stroberi – coklat – stroberi).

25. Choose 4 digits, without repetition, from 0, 1, 4, 5, 6 and 7 to form two 2-digit even numbers. What is the minimum value of the difference?

Pilihlah 4 angka, tanpa pengulangan, dari angka 0, 1, 4, 5, 6 dan 7 untuk membentuk dua bilangan genap 2-angka. Berapakah nilai minimum dari selisihnya?

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~ 全卷完 ~

~ End of Paper ~

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