



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**

小學一年級 Primary 1

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. Edward is 18 years old now and Kenny will be 6 years old 4 years later. What is the difference between their ages?

Usia Edward sekarang adalah 18 tahun. Kenny akan berusia 6 tahun, 4 tahun kemudian. Berapakah selisih usia mereka?

2. 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 “ \_\_\_ ”?

J 、 l 、 N 、 p 、 R 、 \_\_\_ 、 ....

3. If tomorrow will be Thursday, which day of the week will 11 days later be?

Jika besok adalah hari Kamis, hari apakah 11 hari kemudian?

4. According to the pattern shown below, what is the number in the space provided?

Berdasarkan pola di bawah ini, berapakah bilangan yang seharusnya ada pada “ \_\_\_ ”?

4 、 12 、 20 、 28 、 36 、 \_\_\_ 、 ....

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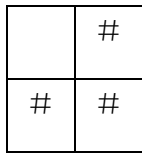
5. According to the pattern shown below, how many # is / are there in the 5<sup>th</sup> group?

Berdasarkan pola di bawah ini, berapa banyak # yang ada pada Kelompok 5?



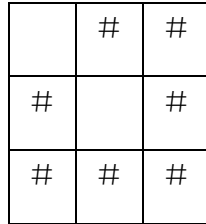
1<sup>st</sup> Group

Kelompok 1



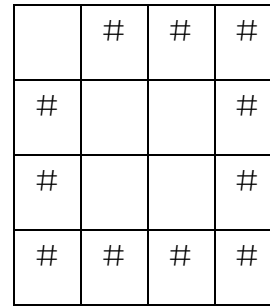
2<sup>nd</sup> Group

Kelompok 2



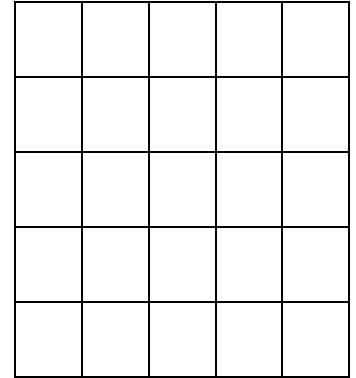
3<sup>rd</sup> Group

Kelompok 3



4<sup>th</sup> Group

Kelompok 4



5<sup>th</sup> Group

Kelompok 5

Question 5

Soal No. 5

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。

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Arithmetic

6. If  $A$  represents the same 1-digit number, what is the value of  $A$  if the equation is correct?

Jika  $A$  melambangkan bilangan 1-angka yang sama, berapakah nilai dari  $A$  jika persamaan di bawah ini benar?

$$\begin{array}{r} 1 \quad A \\ + \quad A \quad 6 \\ \hline 9 \quad 3 \end{array}$$

Question 6

Soal No. 6

7. Find the value of  $48+6+11+29+12+14$ .

Carilah nilai dari  $48+6+11+29+12+14$ .

8. If  $B$  is a 1-digit number, what is the value of  $B$  if the equation below is correct?

Jika  $B$  adalah bilangan 1-angka, berapakah nilai dari  $B$  jika persamaan di bawah ini benar?

$$5 \quad 2 \quad - \quad \boxed{B} \quad = \quad 4 \quad 3$$

9. Find the value of  $4+4+4+4+4+4-6-6-6$ .

Carilah nilai dari  $4+4+4+4+4+4-6-6-6$ .

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。

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10. Find the value of  $14 - 26 + 38$ .

Carilah nilai dari  $14 - 26 + 38$ .

### Number Theory

11. A large package contains 8 eggs. A small package contains 3 eggs. Buying each large package and small package will attach 1 extra egg. If Mary buys 3 large and 5 small packages, how many egg(s) does she have?

Sebuah paket besar berisi 8 telur. Sebuah paket kecil berisi 3 telur. Membeli sebuah paket besar dan sebuah paket kecil akan mendapatkan bonus 1 telur. Jika Mary membeli 3 paket besar dan 5 paket kecil, berapa banyak telur yang dia dapatkan?

12. The numbers below follow the arithmetic sequence, what is the 11<sup>th</sup> number?

Bilangan-bilangan di bawah ini mengikuti sebuah baris aritmatika, berapakah bilangan ke-11?

$118, 113, 108, 103, 98, \dots$

13. It is known that  $A$  is an odd number. Determine the result of  $(A-2) + (A-1) + A + (A+1) + (A+2)$  is an odd or even number.

Diketahui  $A$  adalah bilangan ganjil. Tentukan apakah hasil dari  $(A-2) + (A-1) + A + (A+1) + (A+2)$  adalah bilangan ganjil atau genap.

14. Stephen has 24 apples and Charlie has 6 apples. How many apple(s) does Stephen have to give Charlie to make them to have the same number of apples?

Stephen mempunyai 24 buah apel dan Charlie mempunyai 6 buah apel. Berapa buah apel yang harus Stephen berikan kepada Charlie agar mereka mempunyai jumlah apel yang sama?

15. By observing the numbers, which even number is the greatest?

Pada bilangan-bilangan di bawah ini, bilangan genap manakah yang terbesar?

$99-11, 99+2, 99-13, 99+4, 99+15, 99+16$

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Geometry

16. It is known that figure 1 is formed by 5 cubes. How many cubes are there in figure 2?

Diketahui Gambar 1 dibentuk dari 5 kubus. Berapa banyak kubus yang ada pada Gambar 2?

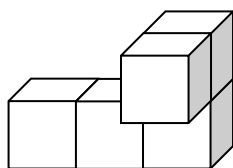


Figure 1  
Gambar 1

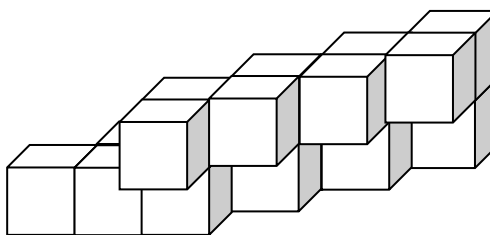


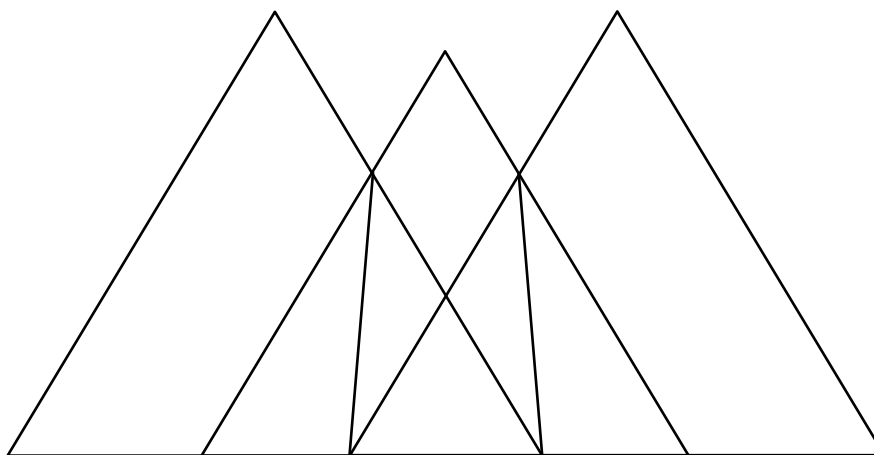
Figure 2  
Gambar 2

Question 16

Soal No. 16

17. How many triangle(s) is / are there in the figure below?

Berapa banyak segitiga yang ada pada gambar di bawah ini?



Question 17

Soal No. 17

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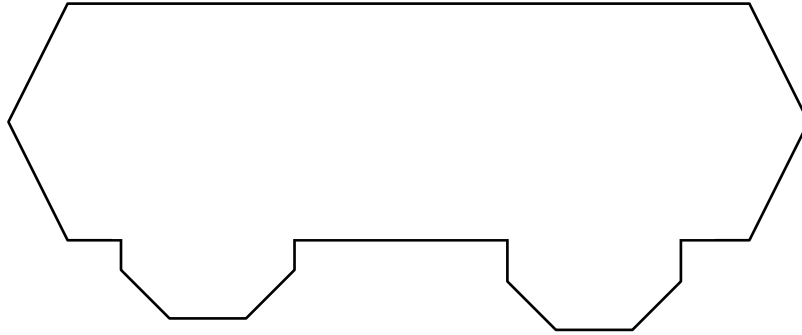
請將答案寫在 答題紙 上。

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18. How many side(s) is / are there in the polygon below?

**Berapa banyak sisi yang ada pada segibanyak di bawah ini?**



Question 18

**Soal No. 18**

19. According to the pattern shown below, what is the figure in the space provided?

**Berdasarkan pola di bawah ini, gambar apakah yang seharusnya ada di “\_” ?**



Question 19

**Soal No. 19**

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。  
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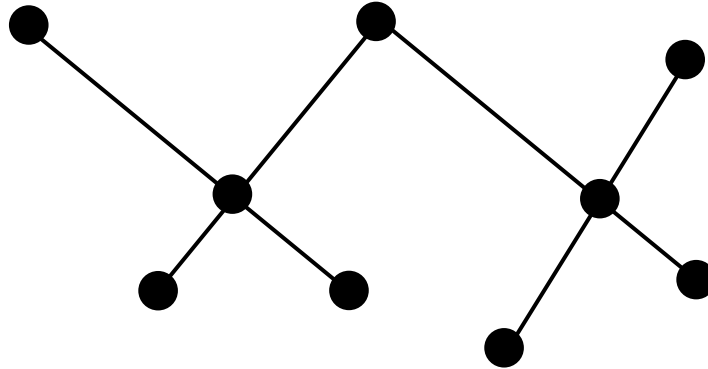
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20. How many line segment(s) is / are there in the polygon below?

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



Question 20

Soal No. 20

Combinatorics

21. 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?

$$21 - 6, 6 + 5, 9 - 2, 100 - 5, 11 + 5, 4 + 7$$

22. Which number below is the smallest?

Bilangan manakah di bawah ini yang terkecil?

$$20111111 \quad \text{、} \quad 2011211 \quad \text{、} \quad 20222222 \quad \text{、} \quad 203333$$

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23. According to the following answers, how many number(s) is/are between 10 to 30?

Pada jawaban-jawaban di bawah ini, berapa banyak bilangan yang ada antara 10 sampai 30?

$$11+8, 2+9, 3+4, 50-7, 40-7, 25+4, 30-21$$

24. What is the smallest 3-digit even number by choosing 3 digits from 0, 1, 5, 7 and 9? (Each number can only be used once)

Berapakah bilangan genap 3-angka terkecil yang dapat dibentuk dengan memilih 3 angka : 0,1,5,7 dan 9? (Setiap angka hanya dapat digunakan satu kali).

25. Choose 4 digits, without repetition, from 2, 3, 5, 7, 8 and 9 to form two 2-digit odd numbers and add them up. What is the maximum value of the sum?

Pilihlah 4 angka, tanpa pengulangan, dari angka 2, 3, 5, 7, 8 dan 9 untuk membentuk bilangan ganjil 2-angka, kemudian jumlahkan angka-angka tersebut. Berapakah nilai maksimum dari hasil penjumlahannya?

~ 全卷完 ~

~ End of Paper ~