

Open-Ended Questions (1st ~25th) (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?

O 、 B 、 P 、 C 、 Q 、 D 、 R 、 E 、 _ 、 ...

Menurut pola yang ditunjukkan di bawah ini, apa abjad alfabet di tempat yang disediakan?

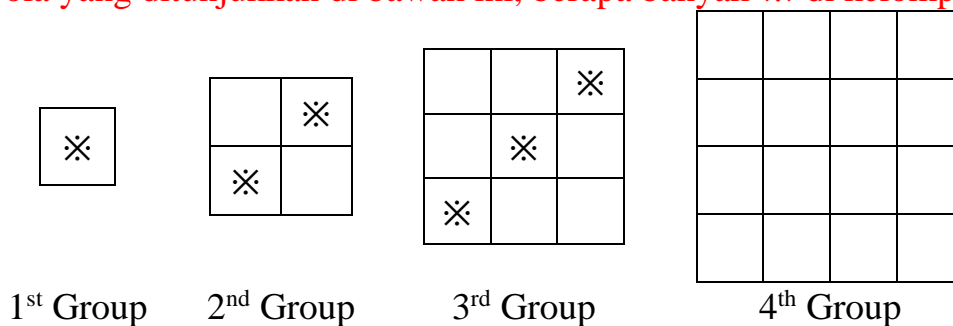
O 、 B 、 P 、 C 、 Q 、 D 、 R 、 E 、 _ 、 ...

2. Brother is 39 years old and sister is 33 years old. What is the difference between their ages?

Kakak laki – laki berusia 39 tahun dan kakak perempuan berusia 33 tahun. Berapa selisih usia mereka?

3. According to the pattern shown below, how many ※ is / are there in the 4th group?

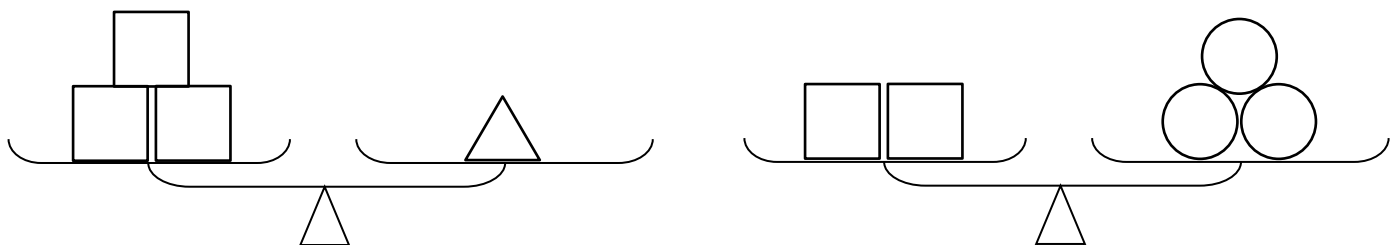
Menurut pola yang ditunjukkan di bawah ini, berapa banyak ※ di kelompok ke-4?



Question 3

4. In the figure below, there are 2 balances. Which of ○ 、 △ 、 □ is the heaviest?

Berdasarkan gambar berikut, keduanya setimbang. Manakah dari ○ 、 △ 、 □ yang paling berat?



Question 4

5. It is known as the password of “SIGN” is “WMKR”. What is the password for “PAY”?

Diketahui password “SIGN” adalah “WMKR”. Apa kata sandi untuk "PAY"?

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.

Arithmetic

6. Find the value of $19 - 3 - 6$.

Temukan nilai dari $19 - 3 - 6$.

7. Find the value of $6 + 3 + 2 + 7 + 4$.

Temukan nilai dari $6 + 3 + 2 + 7 + 4$.

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

$$\begin{array}{r} 26 \\ - \square A \\ \hline 19 \end{array}$$

Jika A adalah bilangan 1 digit, berapakah nilai dari A jika persamaan berikut benar?

$$\begin{array}{r} 26 \\ - \square A \\ \hline 19 \end{array}$$

9. Refer to the puzzle, find the value of A .

Berdasarkan puzzle berikut, temukan nilai dari A

$$\begin{array}{r} A \\ + 3 A \\ \hline 46 \end{array}$$

10. Find the value of $9 - 8 + 7 + 6 - 5 + 4 + 3 - 2 + 1 + 0$.

Temukan nilai dari $9 - 8 + 7 + 6 - 5 + 4 + 3 - 2 + 1 + 0$.

請將答案寫在

答題紙

 上。

All answers should be written on the ANSWER SHEET.

Number Theory

11. An ant has 6 legs, how many legs do 5 ants have?

Semut memiliki 6 kaki, berapa banyak kaki yang dimiliki 5 semut?

12. Wendy has 16 toy trucks and Paula has 6 toy trucks. How many toy truck(s) does Wendy have to give Paula to make them to have the same amount of toy trucks?

Wendy memiliki 16 truk mainan dan Paula memiliki 6 truk mainan. Berapa banyak truk mainan yang harus Wendy berikan kepada Paula agar mereka memiliki jumlah truk mainan yang sama?

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

$$7 \quad \underline{\quad} \quad 15 \quad \underline{\quad} \quad 4 \quad \underline{\quad} \quad 8 \quad = \quad 18$$

Isi garis dengan ' + ' dan ' - ' untuk membuat persamaan di bawah ini benar. (Tuliskan lengkapi persamaan pada lembar jawaban)

$$7 \quad \underline{\quad} \quad 15 \quad \underline{\quad} \quad 4 \quad \underline{\quad} \quad 8 \quad = \quad 18$$

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

$$4, 8, 12, 16, \underline{\quad}$$

Berdasarkan pola di bawah ini, berapakah bilangan pada tempat yang tersedia?

$$4, 8, 12, 16, \underline{\quad}$$

15. A large package has 9 pencils. A small package has 5 pencils. How many pencils do 3 large packages and 1 small package have?

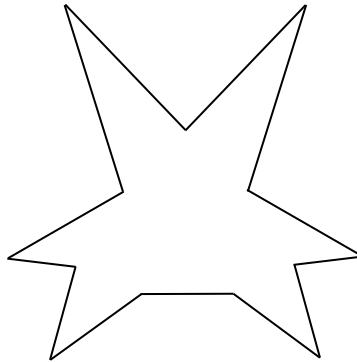
Sebuah paket besar memiliki 9 pensil. Sebuah paket kecil memiliki 5 pensil. Berapa banyak pensil yang dimiliki 3 paket besar dan 1 paket kecil?

請將答案寫在 答題紙 上。

All answers should be written on the ANSWER SHEET.

Geometry

16. How many side(s) is / are there in the polygon below?
Berapa banyak sisi yang terdapat pada polygon berikut?



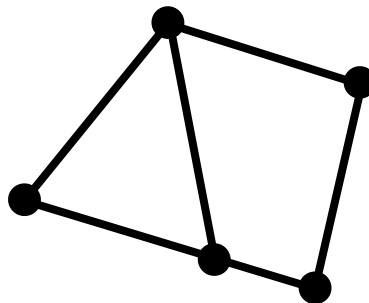
Question 16

17. According to the pattern shown below, what is the figure in the space provided?
Menurut pola yang ditunjukkan di bawah ini, berapakah gambar di tempat yang disediakan?



Question 17

18. How many line segment(s) is / are there in the polygon below?
Berapa banyak segmen garis pada polygon berikut?



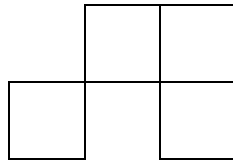
Question 18

請將答案寫在 答題紙 上。

All answers should be written on the ANSWER SHEET.

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

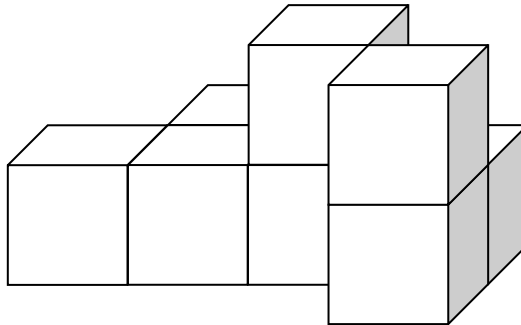
Berapa banyak persegi pada gambar berikut?



Question 19

20. At least how many cube(s) is / are there in the figure below?

paling sedikit berapa banyak kubus yang ada pada bangun berikut?



Question 20

請將答案寫在 答題紙 上。

All answers should be written on the ANSWER SHEET.

Combinatorics

21. Separate 10 diamonds into 5 equal groups, how many diamond(s) is / are there in each group?



Pisahkan 10 berlian menjadi 5 kelompok yang sama, berapa banyak berlian / ada di setiap kelompok?



22. Hailey has 3 portions of oranges, 7 portions of kiwi fruits and 2 portions of mangoes. She needs to share those fruit with her brother evenly and each of them has at least 1 portion of each fruit. If brother gets 4 portions of kiwi fruits, how many portions of oranges does Hailey get?

Hailey memiliki 3 porsi jeruk, 7 porsi buah kiwi dan 2 porsi mangga. Dia perlu membagi buah itu dengan saudara laki-lakinya secara merata dan masing-masing dari mereka memiliki setidaknya 1 porsi setiap buah. Jika kakak mendapat 4 porsi buah kiwi, berapa porsi jeruk yang didapat Hailey?

23. Peter has 5 \$1 and 4 \$2 coins. At most how many \$5 coin(s) can he exchange?

Peter memiliki 5 koin \$1 dan 4 koin \$2. Paling banyak, berapa koin \$5 yang dapat dia tukarkan?

24. What is the smallest 3-digit number composed of 3 numbers from 4, 0, 9 and 1? (Each number can only be used once)

Berapa bilangan 3 angka terkecil yang terdiri dari 3 bilangan dari 4, 0, 9 dan 1? (Setiap nomor hanya dapat digunakan sekali)

25. According to the values of the following expressions, what is the difference between the number(s) of odd number(s) and even number(s)?

$$12-4, 7-1, 9-7, 8+5, 17-13, 12+4, 2+3$$

Berdasarkan nilai dari ekspresi berikut, berapakah perbedaan antara bilangan ganjil dan bilangan genap?

$$12-4, 7-1, 9-7, 8+5, 17-13, 12+4, 2+3$$

~ End of Paper ~