

## TIMO KHỐI 1 VÒNG QUỐC GIA 2024 - 2025

### Logical Thinking / Tư duy logic

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

*Pattern: Quy luật; Space: Chỗ trống.*

**5, 9, 13, 17, 21, 25, ...**

**Key: 29**

2. According to the pattern below, what is the English letter filled in the blank?

*Pattern: Quy luật; English letter: Chữ cái tiếng Anh; Fill: Điền; Blank: Chỗ trống.*

**D, A, G, C, J, E, M, G, ...**

**Key: P**

3. 21 children form a column. There are 7 children in front of Eric. How many children are behind him?

*Children: Đứa trẻ; Column: Hàng dọc; Front: Phía trước; Behind: Phía sau.*

**Key: 13**

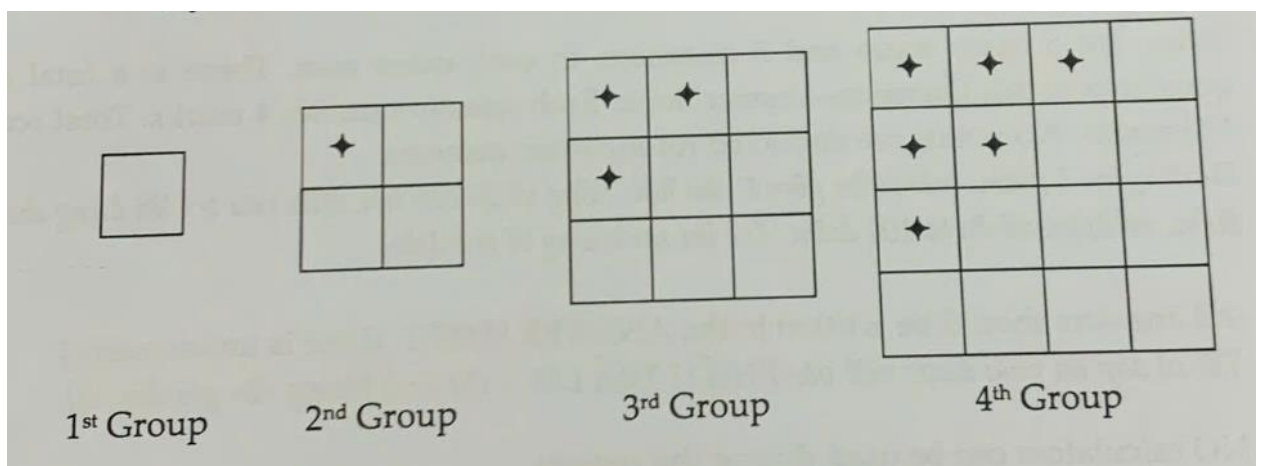
4. 12 years ago, John was 8 years old. Mary is 7 years elder than John. How old is Mary now?

*Year: Năm; Ago: Trước; Year old: Tuổi; Elder than: Nhiều tuổi hơn; Now: Hiện tại.*

**Key: 27**

5. According to the pattern shown below, how many are there in the 6th group?

*Pattern: Quy luật; 6\* group: Nhóm thứ 6.*



**Key: 15**

### Arithmetic / Số học

6. Find the value of **21 + 7 + 62 + 23 + 39 + 38**.

*Value: Giá trị.*

**Key: 190**

7. Find the value of  $25 - 38 + 50 - 5$ .

*Value: Giá trị.*

**Key: 32**

8. Find the value of  $6 + 11 - 5 + 6 + 11 - 5 + 6 + 11 - 5 + 6 + 11 - 5$ .

*Value: Giá trị.*

**Key: 48**

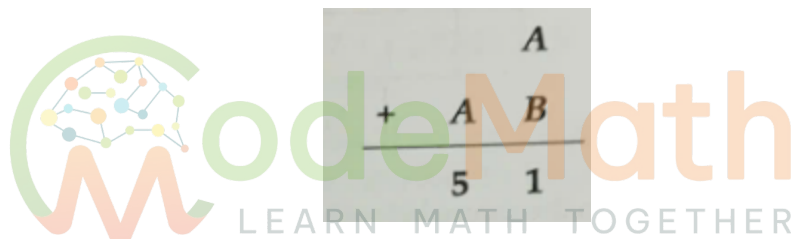
9. What is the number filled in the blank if the equation below is correct? Fill:  
*Điền; Blank: Chỗ trống; Equation: Phép tính; Correct: Đúng.*

$$32 - \dots = 15$$

**Key: 17**

10. Given that A and B represent different 1-digit numbers, what is the value of B if the equation is correct?

*Represent: Biểu diễn; Different: Khác nhau; 1-digit number: Số có 1 chữ số; Value: Giá trị Equation: Phép tính; Correct: Đúng.*



**Key: 7**

### Number Theory / Số học

11. By observing the numbers, which even number is the greatest? Observing:  
*Quan sát; Even number: Số chẵn; Greatest: Lớn nhất.*

**58, 63, 28, 80, 92, 97, 71**

**Key: 92**

12. The numbers below form an arithmetic sequence. What is the 9th number?  
*Arithmetic sequence: Dãy số cách đều; 9th number: Số thứ 9.*

**50, 47, 44, 41, ...**

**Key: 26**

13. Each box of eggs has 8 eggs. Mom asks Mary to buy 20 eggs. Her neighbor asks her to buy 15 eggs. At least how many boxes of eggs does Mary need to buy?  
*Each: Mỗi; Box: Hộp; Egg: Trứng; At least: Ít nhất.*

**Key: 5**

14. A large package contains 8 candies. A small package contains 3 candies. Buying 1 large package and 1 small package together will get you 1 extra candy

for free every time. If Peggy buys 3 large packages and 6 small packages, how many candies does she have in total?

*Large: Lớn; Package: Túi; Contain: Chứa; Candy: Cái kẹo; Small: Nhỏ; Together: Cùng nhau; Extra: Thêm; Free: Miễn phí; Everytime: Mỗi lần; In total: Tất cả.*

**Key: 45**

15. Determine whether the result of  $2 + 5 + 7 + 8 + 11 + 13 + 14 + 15 + 17 + 20 + 21 + 23$  is odd or even.

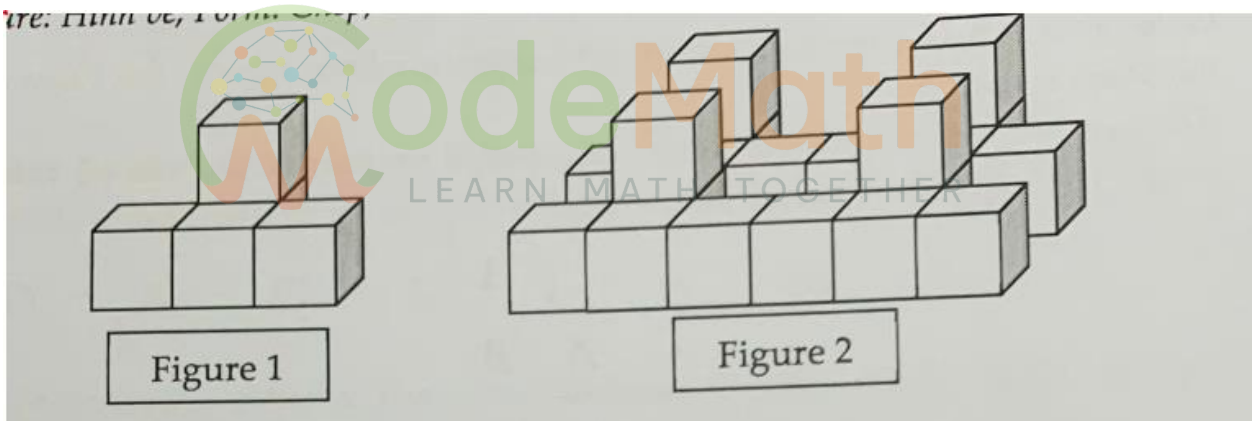
*Determine: Xác định; Result: Kết quả; Odd: Lẻ; Even: Chẵn.*

**Key: Even**

### Geometry / Hình học

16. Figure 1 is formed by 5 cubes and figure 2 is formed by identical shapes as figure 1. How many cubes are there in figure 2?

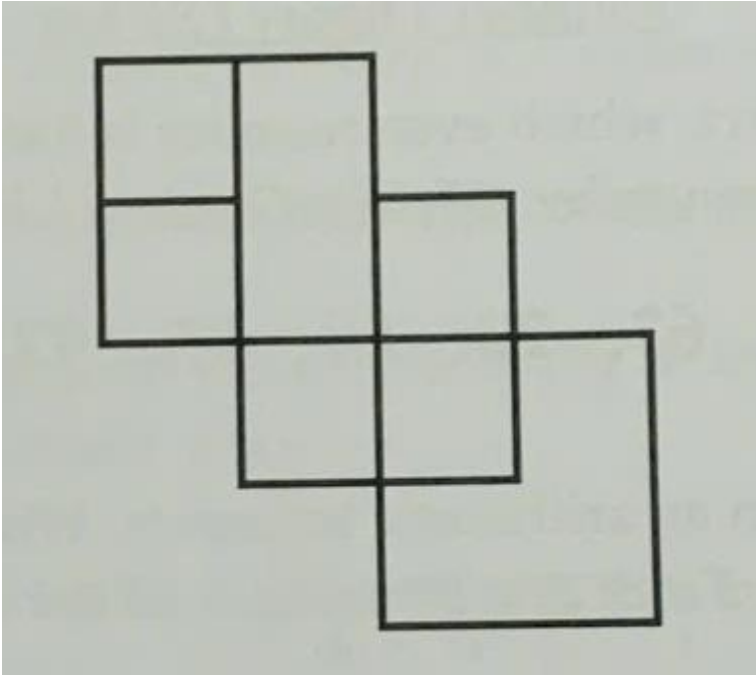
*Figure: Hình vẽ; Form: Ghép; Cube: Hình lập phương; Identical shape: Hình giống nhau.*



**Key: 20**

17. How many squares are there in the figure below?

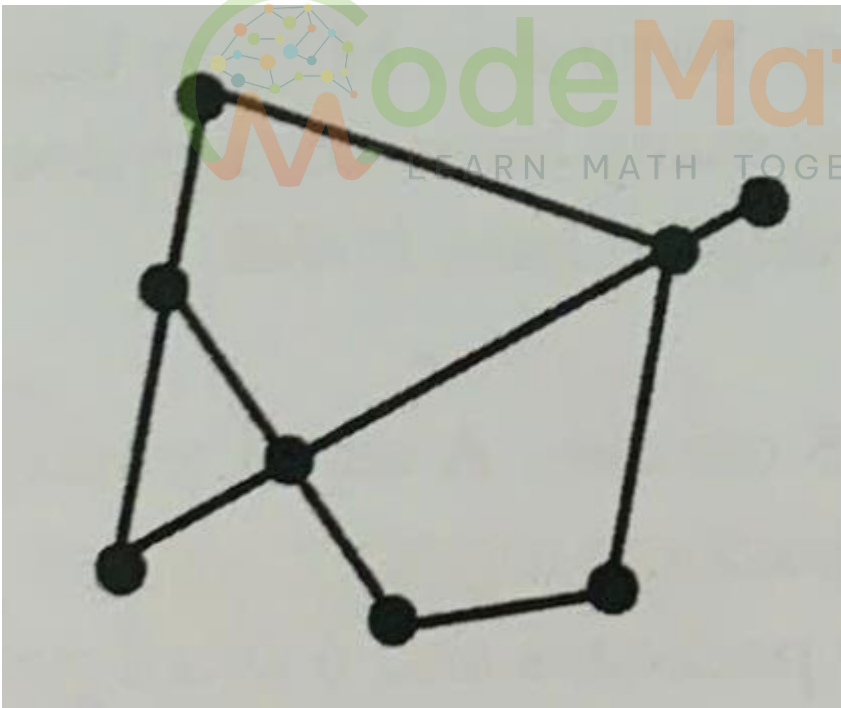
*Square: Hình vuông; Figure: Hình vẽ.*



**Key: 7**

18. How many line segments are there in the figure below?

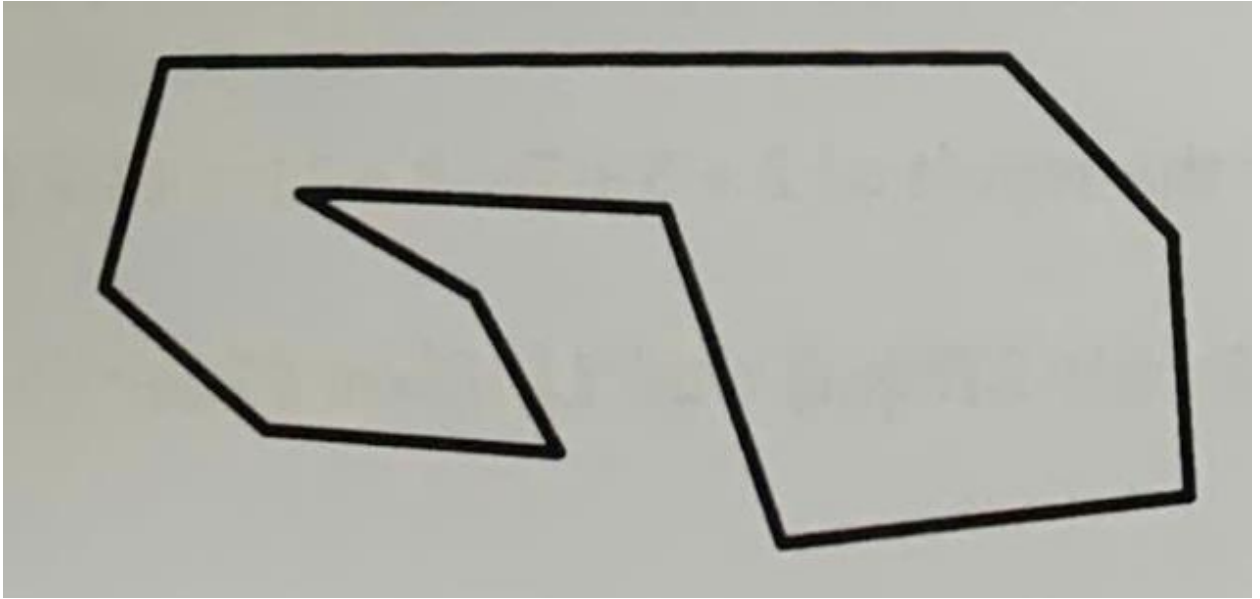
*Line segment: Đoạn thẳng; Figure: Hình vẽ.*



**Key: 15**

19. How many interior angles are there in the polygon below?

*Interior angle: Góc trong; Polygon: Đa giác.*



**Key: 11**

20. According to the pattern shown below, what is the figure in the space provided? *Pattern: Quy luật; Figure: Hình vẽ; Space: Chỗ trống.*



**Key: hình tam giác**

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### Combinatorics / Tổ hợp

21. Which number below is the smallest?

*Smallest: Nhỏ nhất.*

**20247654, 2031097, 20241225, 2029899, 20240604**

**Key: 2029899**

22. A 3-digit number is formed by choosing 3 digits without repetition from 0, 2, 4, 5 and 9. What is the difference between the largest number and the smallest number that can be formed?

*3-digit number: Số có 3 chữ số; Choosing: Chọn; Digit: Chữ số; Without repetition: Không lặp lại; Difference: Hiệu; Largest: Lớn nhất; Smallest: Nhỏ nhất.*

**Key: 750**

23. Neo has 8 \$1 coins and 4 \$2 coins. At most how many \$5 coins can he exchange?

*Coin: Đồng xu; At most: Nhiều nhất; Exchange: Đổi.*

**Key: 3**

24. Refer to the following numbers, what is the difference between the number of even numbers and the number of odd numbers?

*Difference: Hiệu; The number of even numbers: Số lượng số chẵn; The number of odd numbers: Số lượng số lẻ.*

**25, 34, 17, 22, 9, 16, 8, 31, 38**

**Key: 1**

25. Among the values of the following equations, how many even numbers less than 20 are there?

*Value: Giá trị; Equation: Phép tính; Even number: Số chẵn; Less than: Nhỏ hơn.*

**9+6, 15+6, 49-31, 57-27, 9+13, 8+6, 38-26**

**Key: 3**

