

**THAILAND INTERNATIONAL
MATHEMATICAL OLYMPIAD FINAL ROUND
2022 – 2023**

Primary 1

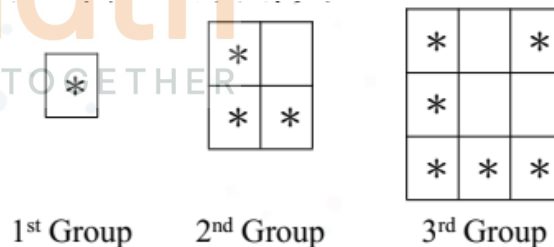
Open-Ended Questions (1st ~30th) (5 points for correct answer, no penalty point for wrong answer)

Logical Thinking

1. According to the pattern shown below, what should be the number filled in the blank?

21 、 18 、 16 、 15 、 12 、 10 、 9 、 、

According to the pattern shown below, how many * is / are there in the 6th group?



3. According to the pattern shown below, what should be the English letter filled in the blank?

Z 、 W 、 T 、 Q 、 、

4. If 5 days later will be Monday, which day of the week is today?
5. Chris is 16 years old now and Andy was 11 years old 2 years ago.
What is the sum of their ages now?
6. 25 students from class 1F, including Peter, are standing in a column.
If there are 12 students standing behind Peter, how many student(s) is / are
standing in front of Peter?



7. What is the value of 1-digit number A if the equation below is correct?
$$A + A + A - A = 12$$

8. Find the value of $29 + 31 + 34 + 38 + 43 - 22 - 24 - 27 - 31 - 36$.

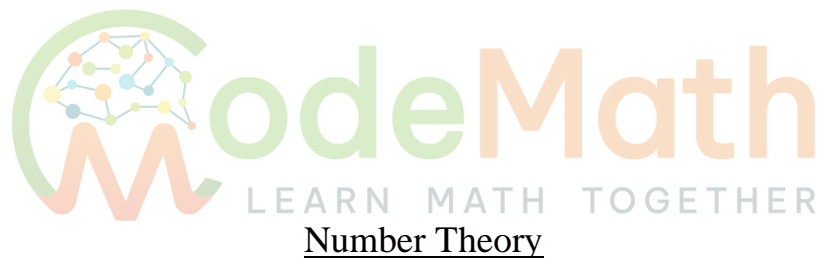
9. Find the value of $33 - 45 + 27$.

10. What is the value of 1-digit number A if the equation is correct?

$$\begin{array}{r}
 1 \quad 5 \quad A \\
 + \quad 4 \quad A \quad 7 \\
 \hline
 6 \quad 0 \quad 1
 \end{array}$$

11. Find the value of $71 + 38 + 55 + 45 + 62 + 29$.

12. Find the value of $40 - 46 + 52 - 58 + 64 - 70 + 76 - 82 + 88 - 94 + 100$.



13. According to the pattern shown below, what should be the number filled in the blank?

15 、 28 、 41 、 54 、 67 、 80 、 、

14. Find the largest 2-digit odd number less than 70 whose unit digit is smaller than its tens digit.

15. There are two different packages of tea bags in the supermarket. A large package contains 9 tea bags and a small package contains 6 tea bags. Peggy is buying 4 large packages and 6 small package of tea bag from the supermarket when the tea bags are going on sales, of which an extra tea bag will be given whenever a large package and a small package of tea bags are bought at the same time. How many tea bag(s) does Peggy get in total?

16. Which of the following numbers is the greatest odd number?

20 、 24 、 39 、 48 、 72 、 29 、 98



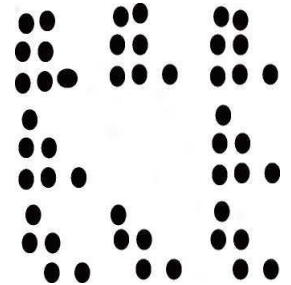
17. Given A is a positive integer, determine whether the result of $A+9+A+A+A+A+5+A+A+3-A+11$ is an odd or even number.

18. The numbers below form an arithmetic sequence, what is the 23rd number of this number sequence?

195 、 187 、 179 、 171 、 163 、 ...

Geometry

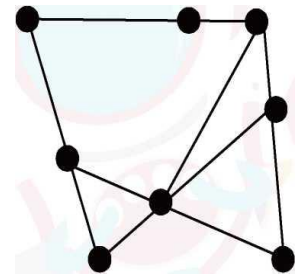
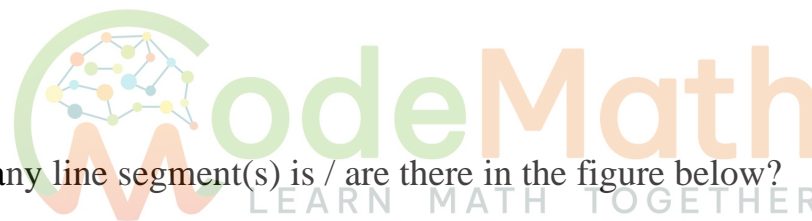
19. How many dot(s) is / are there in the figure below?



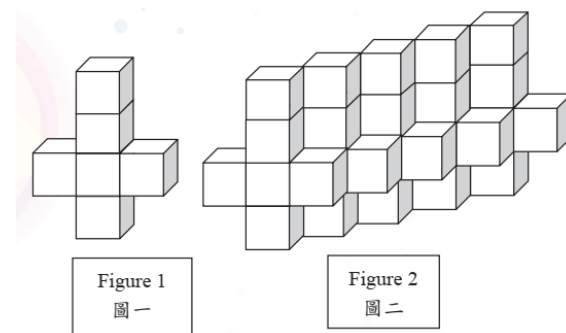
20. According to the pattern shown below, what should be the figure filled in the blank?



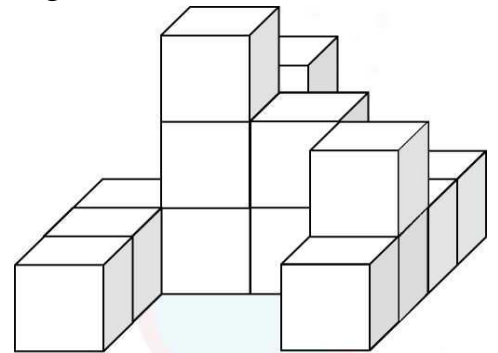
21. How many line segment(s) is / are there in the figure below?



22. Given there are 6 cubes in figure 1, at least how many cube(s) is / are there in figure 2?

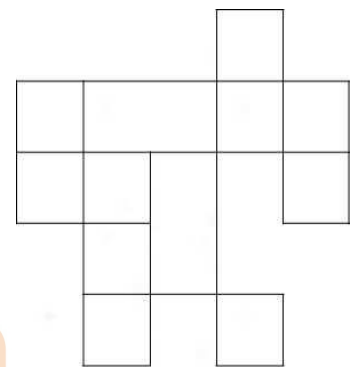


23. At least how many square(s) can be seen if viewing the figure below from the right?



Question 23
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24. How many square(s) is / are there in the figure below?



Question 24

25. According to the pattern shown below, how many odd number(s) is / are there in the first 26 terms inclusive of the following sequence?

2, 5, 8, 11, 14, 17, 20, 23, 26, 29, ...

26. If we are choosing 4 digits, without repetition, from 0, 2, 7, 8 and 9 to form two 2-digit numbers, what is the maximum possible value of their sum?

27. How many 2-digit odd number(s) is / are there with its tens digit less than 7?

28. Among the values of the following expressions, how many 1-digit number(s) is / are there?

$3 + 11$, $12 - 3$, $15 - 11$, $1 + 9$, $13 + 2$, $19 - 5$, $3 + 5$

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29. Bruce has 5 \$5 coins. At most how many \$2 coin(s) can he exchange these coins for?

30. Which number below is the smallest?

2023999 , 20230121 , 20230101 , 201965211