# ASMOPSS THAILAND 2026

**Asian Science & Mathematics Olympiad for Primary and Secondary Schools (Thailand)**

# Mathematics Primary G.4

**Sunday, August 9, 2026**

**8:30 – 10:00 a.m. (90 minutes)**

$$\sum x^2$$

**B**

## Instructions

1. This exam includes 25 questions, with a total score of 100.
2. Fill out your name, grade, school, test center, room, seat number, and identification number either in pen or in pencil.
3. Use a 2B black pencil or darker one to fill in the circles corresponding to your answer written at the top.
4. Use a pen or a pencil to write your answer in the box at the top of the column.
5. If you want to change an answer that you have already marked, use a clean eraser to erase the incorrect answer and mark the new one.
6. It should be noted that figures in the exam are not drawn to scale.
7. Dictionaries, calculators, and electronic devices are not permitted in the test room.
8. Note taking can be done on the test paper only, with no extra sheet provided.
9. If the answer is a number that is more than 3-digit number or decimal number, please answer as the following pattern:
   - 9.1 If the answer is more than 3-digit number, then answer the last 3 digits.
   - 9.2 If the answer is decimal number, then round the answer to the nearest integer.
10. Do not write anything or make any symbols in the black barcode area along the edge of the paper except the answers on the answer sheet. Make sure the answersheet is not crumpled.
11. Submit the answer sheet to the proctor when the time is up.
12. Cheating in the exam may cause serious consequences including disqualification from receiving any award or joining the second round of the test held by ASMOPSS THAILAND.

**Should any disagreement arise, the judgment of the panel is deemed final.**

**Announcement of the results via https://asmopssthailand.com on September 16, 2026**

**: ASMOPSS Thailand / Miraah Education**

Contact US

LINE @asmopss.thailand

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1. Find the value of $789,148 \times 11 - 8,680,561$. (2.5 points)

2. Find the minimum natural number that is greater than the result of $\left(12.6 - 3.64\right) + \left(27.55 - 7.46\right)$. (2.5 points)

3. Find the value of $30 + 28 + 26 + 24 + \ldots + 6 + 4 + 2$. (2.5 points)

4. Fibo bought 8 packages of bread at 54 baht per package, and each package contained 12 pieces of bread. Fibo then resold all the bread at 6 baht per piece. If Fibo sold all the bread, what was his profit? (2.5 points)

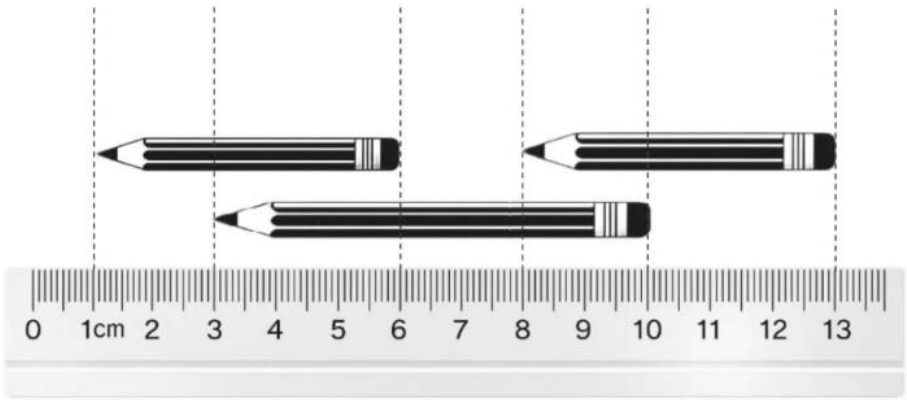


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5. Eva has 240 baht. If Eva spends $\frac{3}{8}$ of her money to buy a cake, how many baht will she have left? (2.5 points)

6. Given a pattern $48,\ 53,\ 59,\ 67,\ A,\ 93$, where $A$ is a natural number, find the value of $A+11$. (2.5 points)

7. The figure shows the lengths of three pencils. If all three pencils are placed end-to-end, what is the maximum possible length in centimeters? (2.5 points)





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8. Fibo has three pigs.

   The 1st pig weighs 78 kilograms.

   The 2nd pig is 19 kilograms lighter than the 1st one.

   The 3rd is 27 kilograms heavier than the 2nd one.

   What is the total weight of all three pigs? (2.5 points)

9. If $\triangle$ represents a natural number and $\triangle + 8 = 23$, then what is the sum of all natural numbers less than $\triangle$? (4.5 points)

10. Let $N$ be a natural number such that when 18 is added to N and then divided by 3, the result is 34 with a remainder of 2. What is the remainder when N is divided by 23? (4.5 points)


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11. Let ▲, ■, and ⬟ be natural numbers.

If ■ + ■ + ■ = 15,

▲ + ▲ + ▲ = 12,

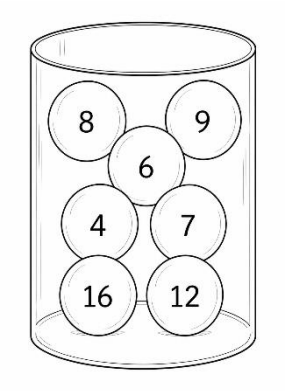
⬟ + ▲ + ■ = 16,

then find the value of ■ × ▲ × ⬟. (4.5 points)

12. If $\frac{12}{50}+\frac{7}{25}-\frac{2}{5}=\frac{m}{n}$, where $\frac{m}{n}$ is a fraction in simplest form, what is the value of $n-m$? (4.5 points)


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13. Fibo has a glass jar containing 7 balls, each marked with a distinct number, as shown in the figure. Fibo randomly draws 2 balls at a time without replacement and multiplies the numbers on the two balls together, recording the results as follows:




- 1st random draw: The product of the numbers on two balls is 48.
- 2nd random draw: The product of the numbers on two balls is 72.

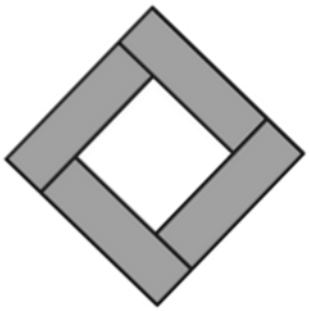
After two draws, 3 balls remain in the jar. If the numbers on the remaining 3 balls are placed into the blanks of the equation below, using each number exactly once:

$$(____ + ____) \times ____ = N$$

What is the maximum possible value of $N$? (4.5 points)

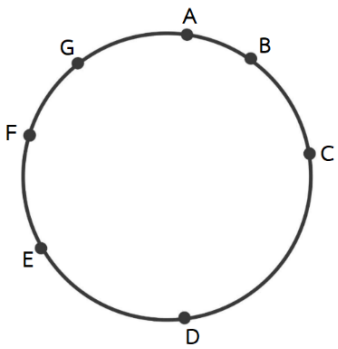

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14. Kathy arranged four equally sized rectangles to form a large square, as shown in the figure.



If the perimeter of this large square is 48 centimeters, find the perimeter of each rectangle. (4.5 points)

15. A circle has a total of 7 points on its circumference, and the points are labeled $A - G$, as shown in the figure.

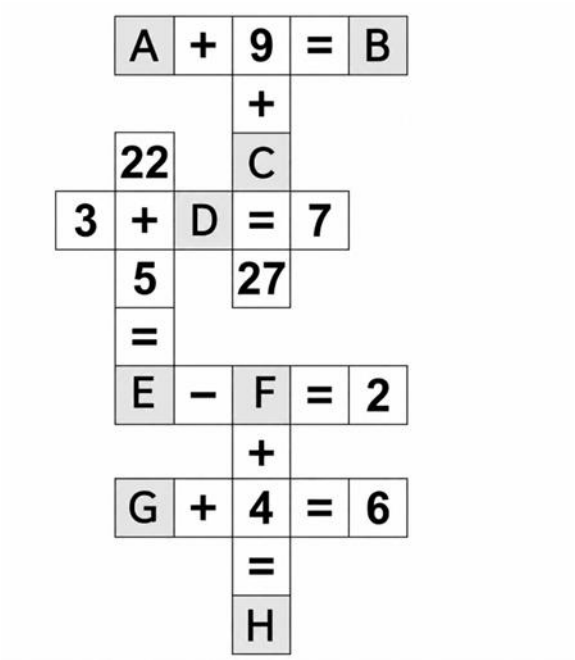



If triangles are created by using the points on that circle as the vertices, how many different triangles can be created in total? (4.5 points)


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16. Mawin is playing a Number Puzzle game. The rules state that numbers must be filled into the grid to make the mathematical expressions in each row and column correct.

If $A$, $B$, $C$, $D$, $E$, $F$, $G$, and $H$ are the correct numbers to substitute into the number puzzle table as shown in the figure.




Find the value of $(B-A+C)-\left(E-D\right)+\left(H+G-F\right)$. (6 points)

17. Anna, Best, Charlie, and Diego are four people standing in a row such that:

- 2 people are standing in front of Anna.
- 4 people are standing in front of Best.
- 15 people are standing in front of Diego.
- 33 people are standing in front of Charlie.

What is the total number of people standing between Best and Charlie?

(6 points)


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18. Yaya owns one cat, one rabbit, and one dog. When weighing the pets in pairs, the results are as follows:
    - The combined weight of the cat and the rabbit is 10 kilograms.
    - The combined weight of the dog and the rabbit is 20 kilograms.
    - The combined weight of the dog and the cat is 24 kilograms.

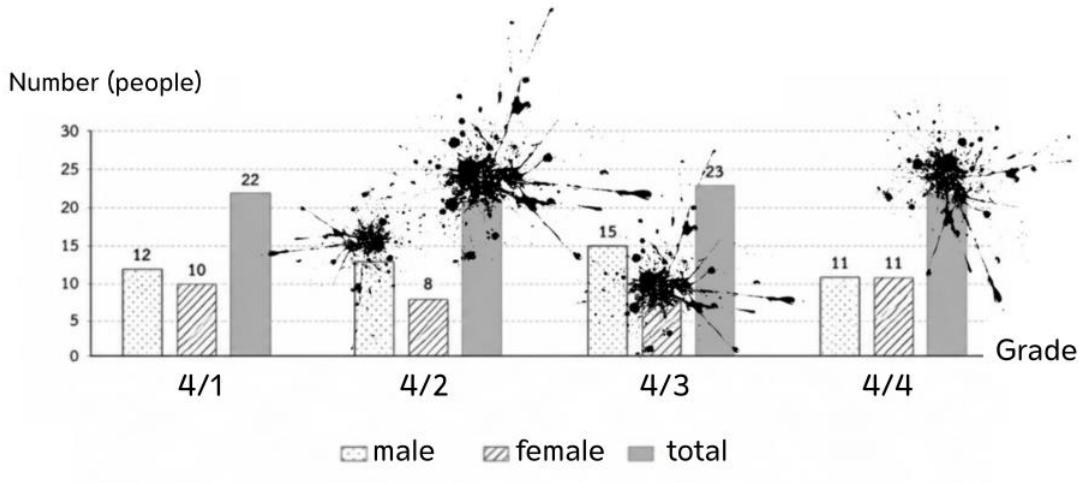
    How many kilograms heavier is the dog than the rabbit? (6 points)

19. Santi has 6 number cards, marked with the digits 0, 1, 2, 3, 4, and 5, respectively. If Santi wants to select 3 number cards to form a 3-digit positive integer satisfying all of the following conditions:
    - **Condition 1:** The digit in each place must not be repeated.
    - **Condition 2:** The three-digit number is divisible by 5.
    - **Condition 3:** The three-digit number is not divisible by 3.

    How many three-digit numbers can Santi create? (6 points)


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20. Let the bar chart show the number of students in classes Grade 4/1 - Grade 4/4.




If Fibo accidentally smudged some of the data with ink, but he remembers that the total number of students in classes P.4/1–P.4/4 is 88, calculate how many more male students there are than female students in the fourth grade (P.4) in total. (6 points)

21. Let $A$ and $B$ be digit numbers such that

$$\begin{array}{r} AAA \\ + \quad 333 \\ \hline 1BB1 \end{array}$$

Find the value of $A+B$. (2.5 points)

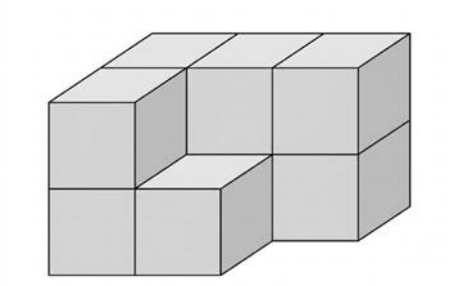

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22. A light bulb changes its color every 12 seconds in a continuous sequence, as follows:

Red → Blue → Yellow → Red → Blue → Yellow → Red → Blue → Yellow → ⋯

Starting with the red light, after 4 minutes, how many times in total will the light bulb have changed to Blue? (4.5 points)

23. Small cubes of identical size are arranged and stacked to form a three-dimensional shape, as shown in the figure. (4.5 points)



If each small cube has a volume of 8 cubic centimeters, what is the total volume of this three-dimensional shape in cubic centimeters? (4.5 points)


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24. Messi has 5 distinct footballs. If he randomly selects 2 footballs simultaneously, how many different ways can he choose them? (2.5 points)

25. How many two-digit numbers are there that satisfy the condition that twice the units digit equals the tens digit? (4.5 points)


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# GRADE 4 ANSWER KEY

| No. | Answer | No. | Answer |
|---|---|---|---|
| 1 | 067 | 14 | 024 |
| 2 | 030 | 15 | 35 |
| 3 | 240 | 16 | 10 |
| 4 | 144 | 17 | 28 |
| 5 | 150 | 18 | 14 |
| 6 | 089 | 19 | 22 |
| 7 | 017 | 20 | 14 |
| 8 | 223 | 21 | 10 |
| 9 | 105 | 22 | 7 |
| 10 | 17 | 23 | 72 |
| 11 | 140 | 24 | 10 |
| 12 | 022 | 25 | 4 |
| 13 | 208 | | |


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