ASMOPSS THAILAND 2026

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

Mathematics Primary G.5

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

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1. Find the value of $\left(3.25 \times 4.2\right) + \left(4.2 \times 6.75\right) + 25$. (2.5 points)

2. Find the value of $1 + 2 - 3 + 4 - 5 + 6 - 7 + 8 - 9 + \ldots - 77 + 78 - 79 + 80$.

(2.5 points)

3. Fibo spent $\frac{2}{5}$ of his money on a pair of shoes. If he had 1,251 baht left, how much did he pay for the shoes? (2.5 points)

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4. Given the pattern showing the relationship between the numbers:

$$1,\ 4,\ 9,\ 17,\ 29,\ 46,\ A,$$

find the value of A. (2.5 points)

5. A bakery sells salted bread for 12.50 baht each and cream cheese croissants for 15.25 baht each.

If Kathy buys 36 pieces of salted bread and 36 pieces of cream cheese croissants, how much does Kathy pay in total? (2.5 points)

6. Let A be a counting number. When A is rounded to the nearest hundred, the result is 400. What is the maximum possible value of A? (2.5 points)

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7. In March, Kerry read math books for 2 hours every day. In April, Kerry read math books for 2 hours and 10 minutes every day. How many more hours did Kerry spend reading math in April than in March? (2.5 points)

8. A rectangle has a perimeter of 120 centimeters. If the difference between its length and width is 8 centimeters, what is the area of the rectangle in square centimeters? (2.5 points)

9. Find the value of $2 \cdot \left(1 - \frac{1}{2}\right) + 3 \cdot \left(1 - \frac{1}{3}\right) + 4 \cdot \left(1 - \frac{1}{4}\right) + \ldots + 35 \cdot \left(1 - \frac{1}{35}\right)$.

(4.5 points)

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10. How much greater is the value of $12+15+18+21+\ldots+90$ than 51×25?

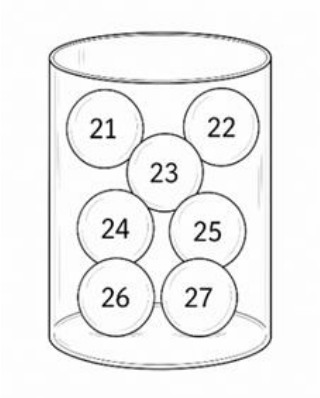
(4.5 points)

11. Given that a tray of eggs contains 30 eggs, and a store sells eggs for 60 baht per tray. Marwin ordered 50 trays of eggs from this store. Upon arrival, he found that $\frac{2}{25}$ of the eggs ordered were broken during transportation. If Marwin sells the remaining eggs at 5 baht for 2 eggs, how much profit did he make in total after selling them all? (4.5 points)

12. Find the largest two-digit natural number that is divisible by 5, but leaves a remainder of 1 when divided by 7. (4.5 points)

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13. A glass jar contains 7 balls, each numbered with a distinct integer as shown in the figure.



Fibo randomly draws 3 balls from the glass jar at a time without replacement. He calculates the sum of the numbers on the three drawn balls and records the results as follows:

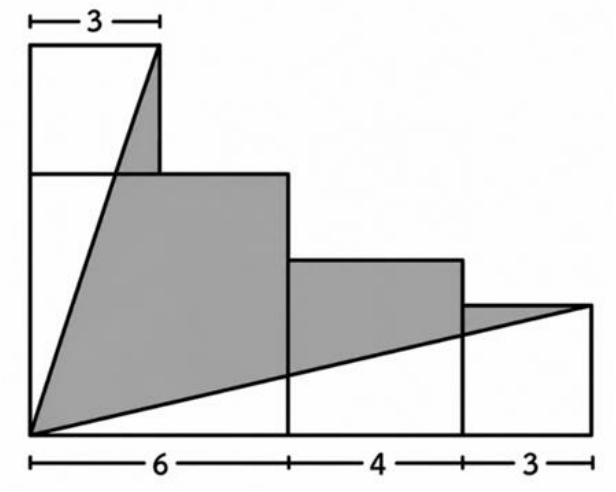
First draw: The sum of the numbers on the three balls is 77.

Second draw: The sum of the numbers on the three balls is 66.

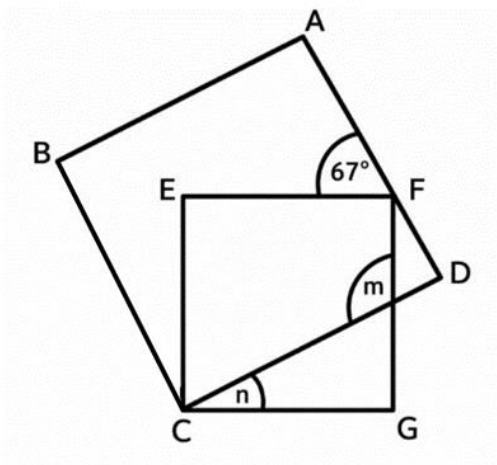
After two draws, only 1 ball will be left in the glass jar. If the number on this remaining ball is multiplied by 3 and then decreased by 1, what is the final result? (4.5 points)

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14. A set of four squares consists of two squares with sides of 3 units, one square with sides of 4 units, and one square with sides of 6 units. If these squares are arranged adjacent to each other and partially shaded as shown in the figure, find the area of the shaded region. (4.5 points)



15. Let $ABCD$ and $CEFG$ be squares that share a common vertex C as shown in the figure.



Find the value of $m-n$. (4.5 points)

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

- 28 people are standing behind Anna.
- 20 people are standing in front of Charlie.
- 20 people are standing in the line between Best and Diego.
- There is no one standing behind Diego.

If there are 31 people in total in the line, what is the difference between the number of people standing between Charlie and Diego and the number of people standing between Best and Charlie? (6 points)

17. From the figure, if $A, B, C, D,$ and E represent the numbers in the table that correspond to the pattern of the fields, then find the value of $\dfrac{\left(A+B\times C\right)\times D}{E}$.
(6 points)

	3	1	2	1	1
2					
0					
4					
2					

Figure 1

	3	3	1	1	2
2					
3					
2					
3					

Figure 2

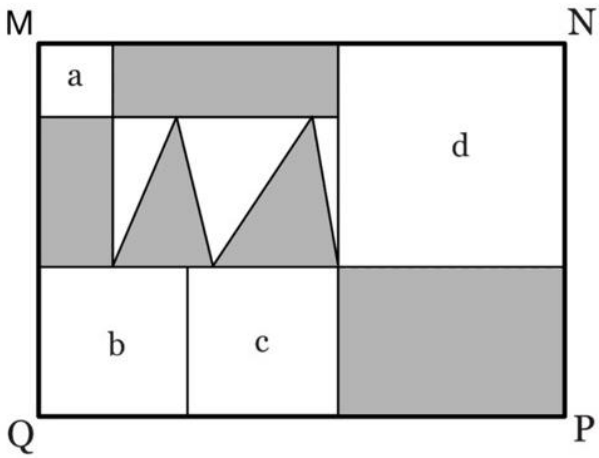
	2	2	A	B	C
2					
3					
D					
E					

Figure 3

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18. From the diagram, $MNPQ$ is a rectangle with a perimeter of 72 centimeters. Given that a, b, c, and d are squares with an area ratio of $1:4:4:9$, find the area of shaded region.

(6 points)



19. Fibo has seven digits: 0, 1, 2, 3, 4, 6, and 8. When these digits are arranged to form a three-digit number, such that each digit is unique and satisfies the following conditions:

• The three-digit number is divisible by 4.

• The three-digit number leaves a remainder of 1 when divided by 9.

How many three-digit numbers satisfy the above conditions?

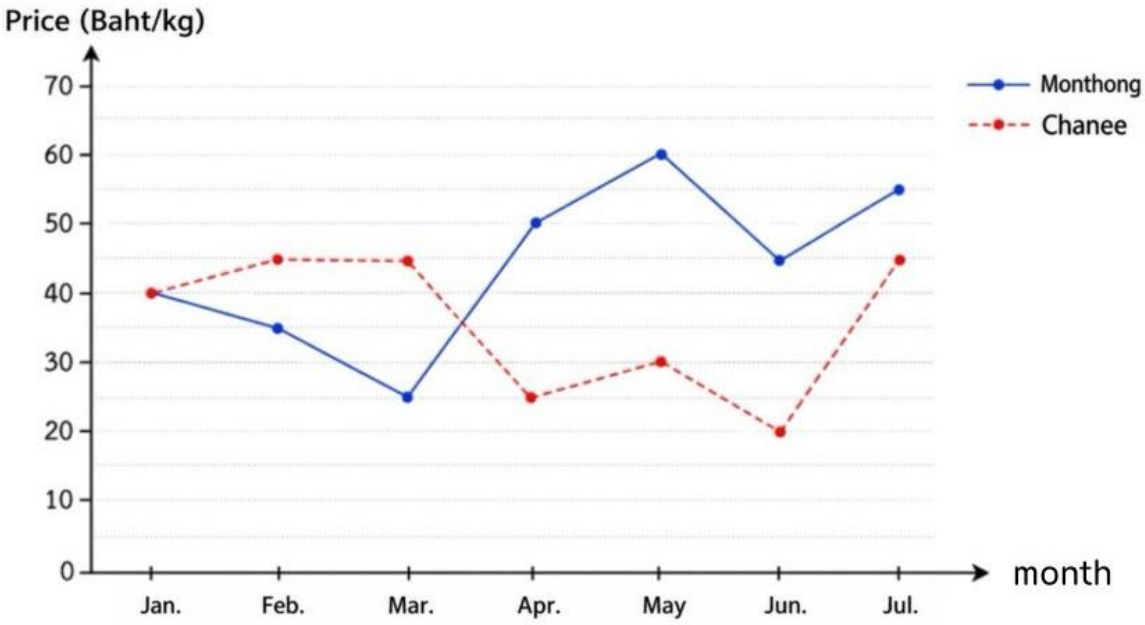
(6 points)

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20. Fibo orders both durian varieties regularly every month from this shop with the following ordering conditions:

1. The total weight of both durian varieties ordered each month is the same.

2. The ratio of the weight of Monthong durian to the weight of Chanee durian in each order is $2:3$.



If the total cost of ordering both durian varieties in March is 140 baht higher than in April, find the difference in the cost of ordering Monthong and Chanee durian in July.

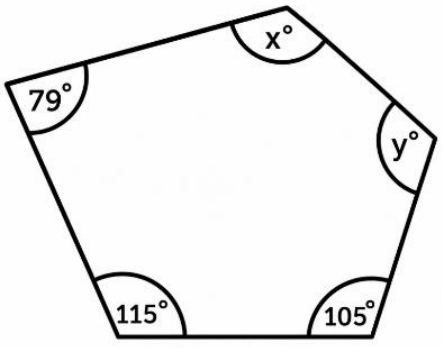
(6 points)

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21. $\frac{15}{100}$ of what number is equal to 72? (2.5 point)

22. The sum of Katy and Anna's ages is 17 years.
The sum of Anna and Fibo's ages is 15 years.
The sum of Fibo and Katy's ages is 14 years.
Find Anna's age. (4.5 point)

23. From the figure, if the measure of angle x is 19 degrees larger than the measure of angle y, find the measure of angle y. (4.5 point)



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24. How many two-digit numbers are not divisible by 2, 3, 5, or 7? (2.5 point)

25. The space center has a total of 6 rescue robots: 3 red robots (named R1, R2, R3) and 3 blue robots (named B1, B2, B3). If Kevin randomly selects 3 robots for a mission with the condition that “robots with the same number, such as B1 and R1, cannot work together in the same team”, how many different ways can Kevin arrange the robot teams? (4.5 point)

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GRADE 5 ANSWER KEY

No.	Answer	No.	Answer
1	67	**14**	37
2	42	**15**	90
3	834	**16**	1
4	69	**17**	9
5	999	**18**	126
6	449	**19**	8
7	3	**20**	350
8	884	**21**	480
9	595	**22**	9
10	102	**23**	111
11	450	**24**	21
12	85	**25**	8
13	74		

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