ASMOPSS THAILAND 2026

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

Mathematics Primary G.1

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 14, 2026

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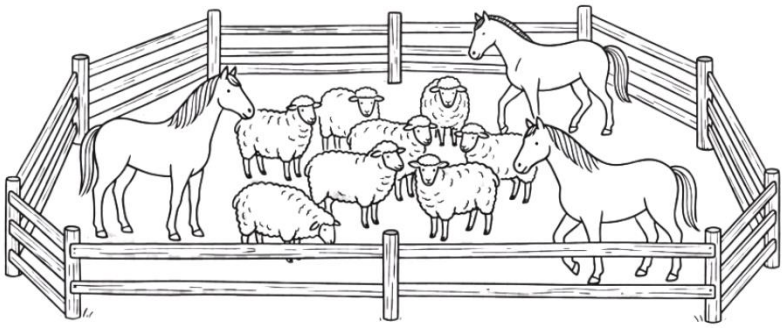
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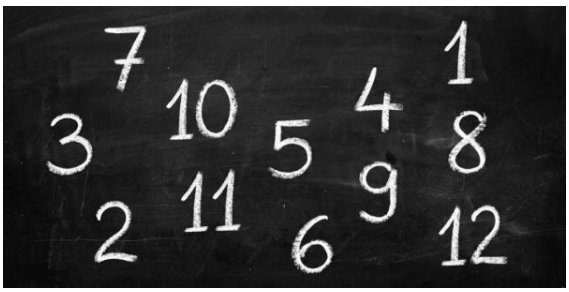
1. Find the value of $1+2+3+4+5-4-3-2-1$. (2.5 points)

2. A father has a total of 11 horses and sheep, as shown in the figure.



How many more sheep are there than horses? (2.5 points)

3. The teacher writes 12 numbers on the board, as shown in the figure.



How many even numbers in total does the teacher write on this board?

(2.5 points)

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4. Fibo has five baht and Marwin has four baht.



How much money do both have in total? (2.5 points)

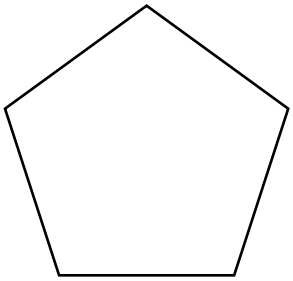
5. How many natural numbers are there in total between 8 and 19?

(2.5 points)

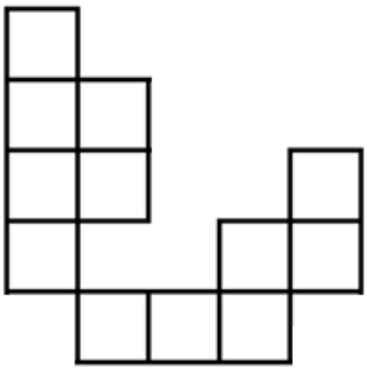
6. Marwin has less than 10 chickens. If Marwin sells 2 chickens, what is the maximum number of chickens he could have left? (2.5 points)

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7. From the figure below, how many lines of symmetry in total does this regular pentagon have? (2.5 points)

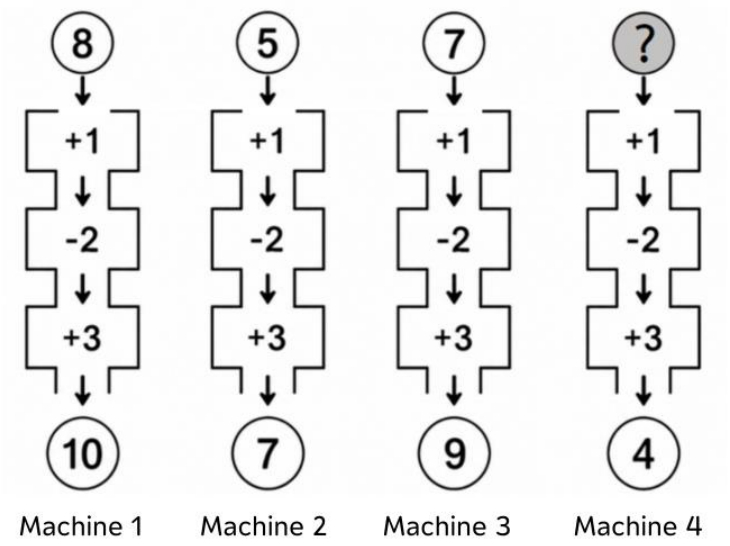


8. From the figure, how many ☐ are there? (2.5 points)



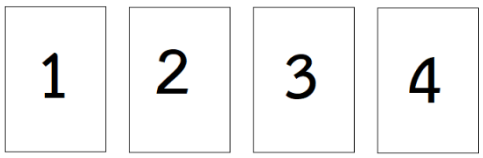
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9. The figure shows the operation of 4 calculating machines, all of which use the same calculation pattern.



What number must be entered into Machine 4 to obtain the final result of 4? (4.5 points)

10. Kevin has 4 number cards, each labeled with a number: 1, 2, 3, and 4, as shown in the figure.



If Kevin randomly selects 3 of these number cards and adds the numbers on those cards together, what is the maximum possible sum? (4.5 points)

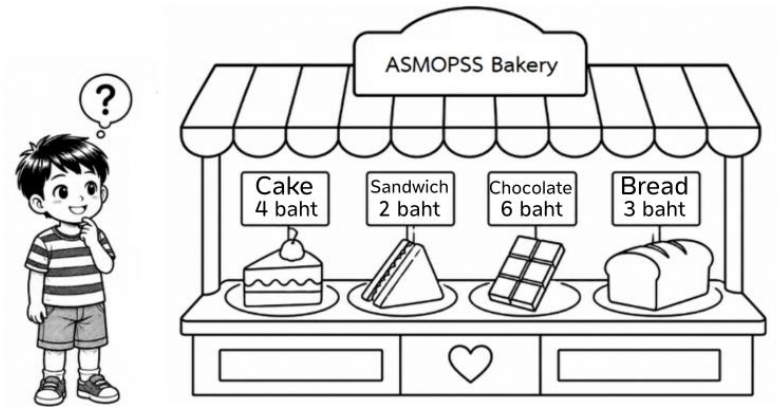
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11. From the following number pattern,

$$4,\ 5,\ 2,\ 4,\ 5,\ 2,\ 4,\ 5,\ 2,\ 4,\ 5,\ \ldots$$

If the numbers are written in this pattern until reaching 20 numbers, how many times will the number 5 appear? (4.5 points)

12. A bakery sets the prices for various types of snacks, as shown in the figure.



If Fibo buys 3 pieces of bread, 2 pieces of cake, 1 piece of chocolate, and 4 sandwiches, how many baht does Fibo have to pay for all the snacks in total? (4.5 points)

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13. Given $\uparrow$ and $\downarrow$ represent mathematical calculations, such as:

$8 \uparrow 1 = 9$,

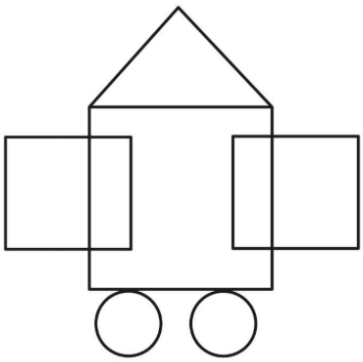
$5 \uparrow 3 = 8$,

$9 \downarrow 2 = 7$,

$7 \downarrow 1 = 6$.

Find the value of $(3 \uparrow 6) \downarrow 1$. (4.5 points)

14. From the given figure, how many quadrilaterals are there? (4.5 points)



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15. Kevin, Kathy, and Fibo have different ages.



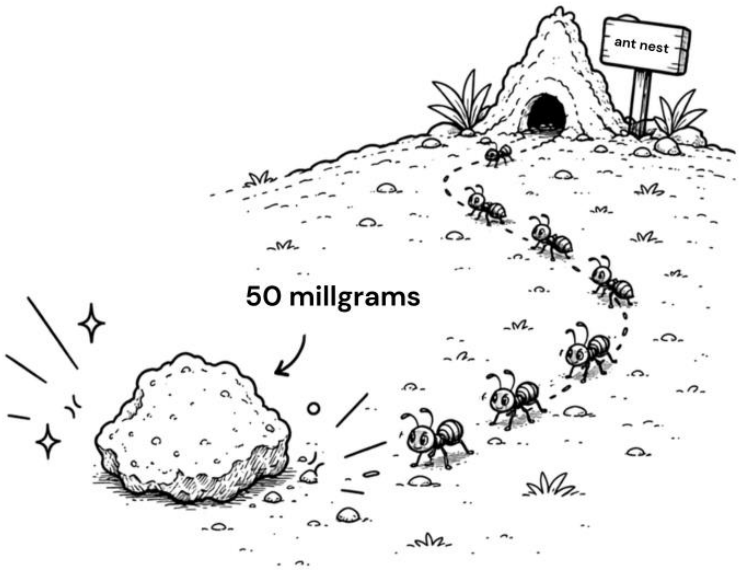
Kevin is 1 year older than Kathy.

Kathy is 2 years older than Fibo.

The sum of the three ages is 20 years.

How old is Kathy? (4.5 points)

16. Ants are very powerful creatures; they can lift objects that weigh much more than their own body weight. An ant can lift objects that are 5 times its own body weight.



A group of ants found a piece of food weighing 50 milligrams. If each ant weighs 3 milligrams, what is the minimum number of ants required to lift this piece of food back to their nest? (6 points)

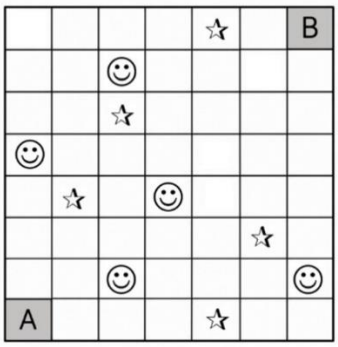
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17. Anna, Best, and Charlie are standing in a row.

- 8 people are standing in front of Best.
- 10 people are standing in front of Charlie.
- 2 people are standing in front of Anna.

If Charlie is the last person in the row, how many people are standing behind Anna? (6 points)

18. From the figure, A represents Fibo's position and B represents Kevin's position.



Fibo must walk along the grid squares ☐ in the direction: Up ⇧, Down ⇩, Left ⇦, Right ⇨) to collect all the **stars** ☆.

Kevin must walk along the grid squares ☐ in the direction: Up ⇧, Down ⇩, Left ⇦, Right ⇨, to collect all the **smiley faces** ☺.

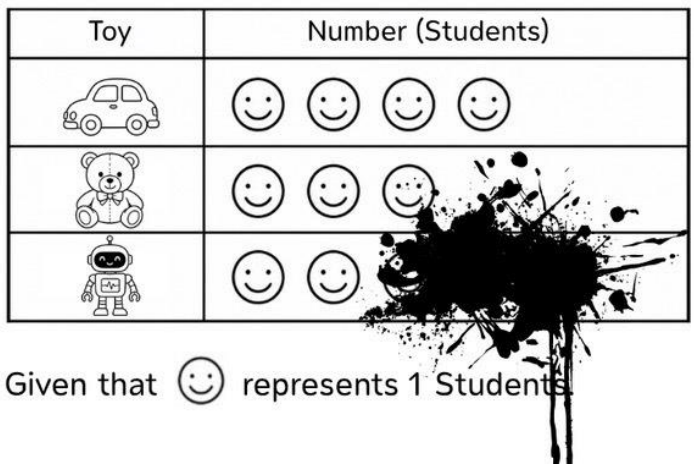
If both of them collect all the **stars** ☆ and the **smiley faces** ☺ using the shortest possible path, what is the difference in the number of squares ☐ they travel? (6 points)

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19. A teacher asks students to write the natural numbers from 1 to 20 on a whiteboard. Then, the students were asked to erase numbers based on the following conditions:
    - Erase all even numbers.
    - Erase all numbers that contain digit 5.
    - Erase all numbers that contain digit 9.

    After erasing all the numbers according to all the conditions, how many numbers will be left on the whiteboard? (6 points)

20. Grade 1 homeroom teacher spilled ink on a picture chart showing the number of students who like different types of toys, as shown in the figure.



If each student can only choose one favorite toy, how many students like robots in total? (6 points)

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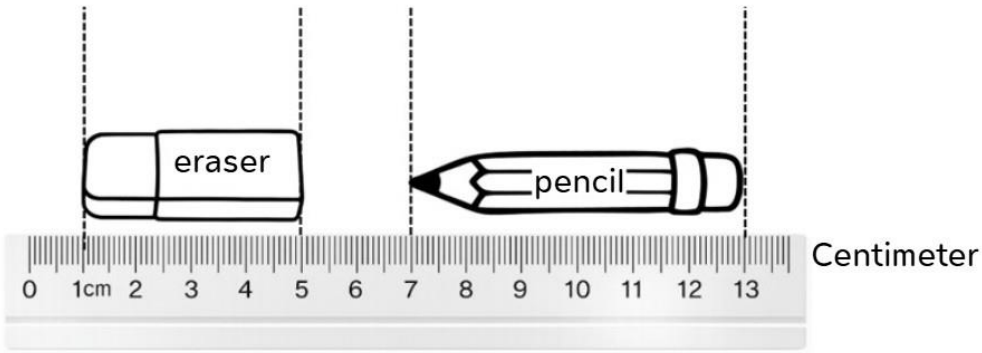
21. Kathy had 12 baht. Her mother gave her 3 more baht. Then, she bought some snacks for 5 baht. How many baht does Kathy have left? (2.5 points)

22. Let $\square$ and $\triangle$ be natural numbers.

Given that $\square + \triangle = 15$, $\square - \triangle = 3$

Find the value of $\triangle + \triangle$. (4.5 points)

23. From the figure, the lengths of an eraser and a pencil are shown.



How many centimeters longer is the pencil than the eraser? (4.5 points)

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24. A shop has 3 different types of dolls. If Marvin wants to buy 2 dolls from this shop, how many ways can he choose to buy the dolls? (2.5 points)

25. Fibo has 4 number cards with the numbers 1, 2, 4, and 5 written on them, one number per card. If Fibo selects two number cards at a time to arrange into two-digit even numbers, how many different ways can Fibo create even numbers? (4.5 points)

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GRADE 1 ANSWER KEY

No.	Answer	No.	Answer
1	5	**14**	7
2	5	**15**	7
3	6	**16**	4
4	9	**17**	8
5	10	**18**	1
6	7	**19**	6
7	5	**20**	3, 4 หรือ 5
8	12	**21**	10
9	2	**22**	12
10	9	**23**	2
11	7	**24**	6
12	31	**25**	6
13	8		

***หมายเหตุ ข้อ 20 ภายใต้เงื่อนไขที่โจทย์กำหนด มีคำตอบที่เป็นไปได้ทั้งสิ้น 3 คำตอบ

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