1. Find the value of $300+\left[8.55+\left(14.2-2.5\times3.1\right)\right]\times3$. **(2.5 Marks)**

2. What is the minimum positive integer that, when rounded to the nearesthundred, is 400? **(2.5 Marks)**

3. If $\frac{A}{B}-\frac{1}{2}+\frac{1}{3}+\frac{1}{4}=\frac{1}{6}$, where A and B are natural number, then find the minimum value of $A+B$. **(2.5 Marks)**

4. A group of student has male students that are $\frac{3}{8}$ of all students. If there are 48 students in this group, how many more girls will there be than boys? **(2.5 Marks)**

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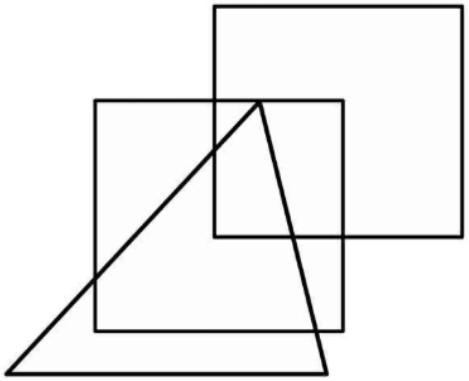
5. An ASMOPSS bus departed the terminal with a certain number of passengers already on board. When the bus stopped at the school station, 3 passengers got off and 5 passengers got on. The bus then continued its journey.
When the bus stopped at the hospital station, 5 passengers got off and 1 passenger got on. The bus then continued its journey.
When the bus stopped at the temple station, 7 passengers got off and 2 passengers got on. The bus then continued its journey.
Finally, the ASMOPSS bus arrived at its destination, and 21 passengers got off. How many passengers were on the ASMOPSS bus before it left the terminal? **(2.5 Marks)**

6. Two shipping companies charge the same shipping rate of 20 baht per item. To compete, both companies launched promotions.
    - The first company, Thunder Express, offers a promotion: a discount $\frac{1}{10}$ off the normal shipping cost.
    - The second company, Easy Express, offers a promotion: for every 5 items shipped, the next 1 item is free.

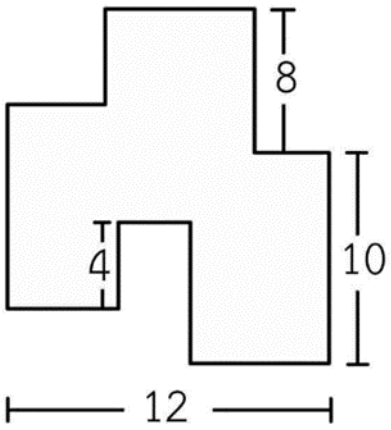
    If Ken wants to ship 8 items and can choose either company, what is the cheapest shipping cost that he would pay? **(2.5 Marks)**

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7. From the diagram, how many quadrilaterals are there? **(2.5 Marks)**



8. Some side lengths of a right-angled polygon are given as shown in the figure below.



What is the perimeter of this polygon? **(2.5 Marks)**

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9. Santi has $12,000$ baht and invests in a fruit business. Santi uses $\frac{1}{6}$ of all the money to buy mangoes, twice the amount used to buy mangoes is spent on durian, and the remaining amount is spent on mangosteen. Investment is summarized as follows.

   The sale of mangoes yields a profit of $\frac{19}{50}$ of the investment in mangoes.

   The sale of durians yields a profit of $\frac{13}{100}$ of the investment in durians.

   The sale of mangosteens yields a loss of $\frac{7}{100}$ of the investment in mangosteens.

   From the information above, how much profit does Santi make from selling all the fruits? **(4.5 Marks)**

10. Yaya, Mary, and Kevin have a combined age of 15 years. Yaya is $5\frac{1}{3}$ years old. Marie is $2\frac{5}{6}$ years older than Yaya. Suppose that Kevin is $a\frac{b}{c}$ years old. If $\frac{b}{c}$ is the simplest fraction, find the value of $a+b+c$. **(4.5 Marks)**

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11. A mathematics exam has a total of 15 questions. For each correct answer, 9 points are awarded. For each incorrect answer, 5 points are deducted. No point is awarded or deducted for unanswered questions.
If Kevin completed this exam and scored a total of 10 points, how many questions did Kevin answer? **(4.5 Marks)**

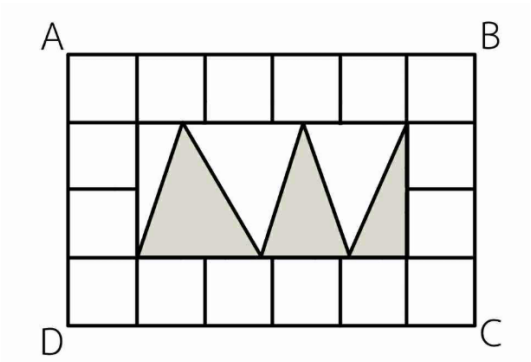
12. If $A \otimes B = \dfrac{(A \times A) - (B + B)}{2}$, what is the value of $9 \otimes (5 \otimes 8)$? **(4.5 Marks)**

13. What is the sum of all digits of $7 + 15 + 23 + 31 + \ldots + 87$? **(4.5 Marks)**

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14. Hoshi has 20 rectangular wood pieces, each measuring 2 inches wide and 5 inches long. Hoshi can arrange all these pieces to form a larger rectangle in various ways. Let A be the longest possible perimeter of the large rectangle that Hoshi can create. Let B be the shortest possible perimeter of the large rectangle that can create. Find the value of $A-B$. **(4.5 Marks)**

15. From the diagram, the rectangular $ABCD$ consists of 16 identical squares and 6 triangles.



If the area of shaded region is 36 cm^2, what is the perimeter of the rectangular $ABCD$? **(4.5 Marks)**

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16. If $\frac{988\times987+986\times985}{988\times988-3\times987}+\frac{1}{2}=a$, what is the value of $4a+9$? **(6 Marks)**

17. The ASMOPSS building has 20 floors, numbered 1 to 20. The elevator in the building has only two buttons: a black button and a red button.

    - Pressing the black button moves the elevator up 7 floors from the current floor. However, the elevator will not operate if this move goes above the 20^{th} floor.
    - Pressing the red button moves the elevator down 11 floors from the current floor. However, the elevator will not operate if this move goes below 1^{st} floor.

    Currently, Pompom is on the third floor.

    How many times must he press both buttons to reach the 11^{th} floor?

    (6 Marks)

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18. In the year 2023, trees were planted along the median strip of ASMOPSS Road from the initial to the terminal. Each tree was planted 3 meters apart, and a total of 73 trees were used. Two years later, all the trees had withered and died, so new trees needed to be planted. This time, to use fewer trees, the spacing was increased to 4 meters per tree. If the workers charge 17 baht per tree, how much should they pay? **(6 Marks)**

19. A palindrome is a word, phrase, number, or sequence of characters that read the same forward and backward.

    Examples of word palindromes are dad, radar, level, madam, etc.

    Examples of number palindromes are 22, 151, 1331, 48584, etc.

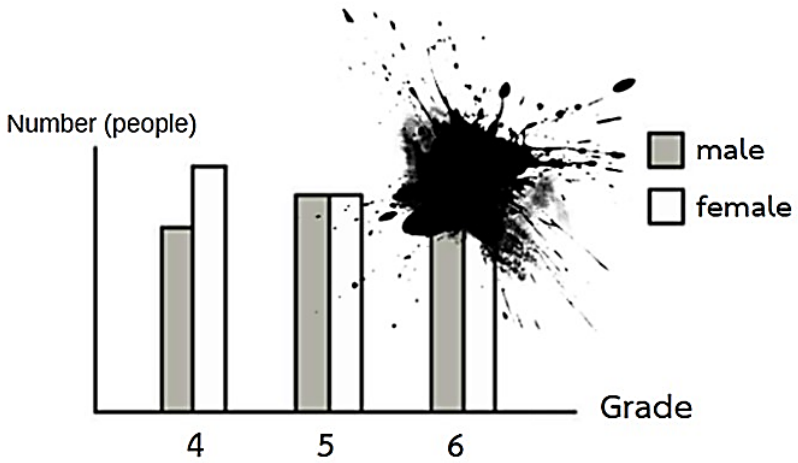
    Based on the information above, how many palindromic numbers are there from 500 to $15,000$? **(6 Marks)**

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20. Teacher Jao collected data on students in Primary 4-6 at ASMOPSS THAILAND School and recorded the information in a table. He was about to create a bar chart to present the data. It turned out that the ink spilled on some of the information, making it incomplete.

Grade	student		total
	male	female	
Grade 4		175	310
Grade 5			318
Grade 6			297
รวม	453		

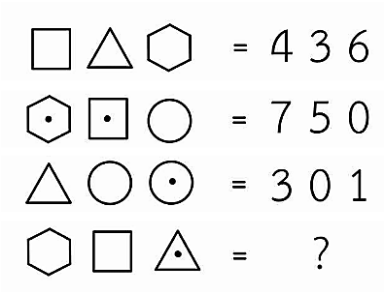
Bar Chart of Student Data, Grades 4-6, ASMOPSS THAILAND School.



Based on the information above, what is the difference between the numberof female students in Primary 6 and the number of male students in Primary 4? **(6 Marks)**

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21. From the diagrams below,

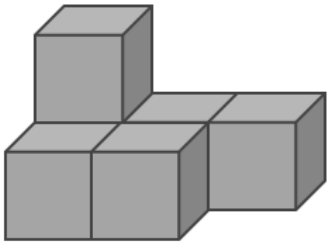


what number does the last diagram represent? **(2.5 Marks)**

22. If $3.82+4.2\times4.8=\overline{ab.cd}$ is a two-digit number with two decimal places, find the value of $a\times b\times c-d$. **(4.5 Marks)**

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23. Six cubes are placed as shown below, and all faces, including the bases, are painted. After the paint dries, all cubes are separated. How many sides are not painted? **(4.5 Marks)**



24. How many 3-digit numbers are there that are less than 400 and divisible by 4? **(2.5 Marks)**

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25. Peter has one pair of shoes in each color: red, green, and blue.

He has one shirt in each color: red, green, blue, and yellow.

He has one pair of pants in each color: red, green, blue, yellow, and white.

How many different ways can Peter dress up if he wants to wear a pair of shoes, a shirt, and a pair of pants, all of which are in different colors?

(4.5 Marks)

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GRADE 5 ANSWER KEY

No.	Answer	No.	Answer
1	345	14	144
2	350	15	60
3	13	16	19
4	12	17	14
5	28	18	935
6	140	19	190
7	11	20	3
8	68	21	644
9	860	22	46
10	4	23	12
11	12	24	75
12	36	25	27
13	13		

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