1. Find the value $589 \times 999 + 362 \times 999 - 949,494$.

2. Let A be the largest natural number which is exactly divisible by $15, 24,$ and 36. Let B be the smallest 2 - digits natural number which when divided by $12, 15,$ and 20 leaves a remainder of 2 in each case. Find the value of $A + B$.

3. Harry has two cats, each of whom needs 0.125 liters of goat milk per day. If each goat milk bottle is 750 ml, then at least how many bottles does he need to buy in order to feed the cats enough for a week?

4. Shops sell bread for 12 baht per piece and sell milk for 15 baht per box. If you buy a set, it contains 2 pieces of bread and a box of milk for the cost of only 35 baht. If John wants to buy 35 pieces of bread and 35 boxes of milk, at least how much does he have to pay?

5. What is the largest three-digit natural number that is divided by 12 and 15 leaving a remainder of 7?

6. From the pattern $1, 1, 2, 1, 2, 3, 1, 2, 3, 4, 1, 2, 3, 4, 5, 1, 2, 3, \ldots$.If you write all 200 numbers according to this form, how many times does the digit 1 will appear?

7. How many natural numbers from 1 to 150 are multiples of 3 but are not divisible by 5?

8. Morgan's age is currently twice that of William's age. In the next 3 years, William's age will be $\frac{3}{5}$ times Morgan's age. What will be the sum of their ages in the next 48 years?

9. Given $A \odot B = \frac{3A+B}{2}$ and $6 \odot M = 13$, what is the value of $M + 5$?

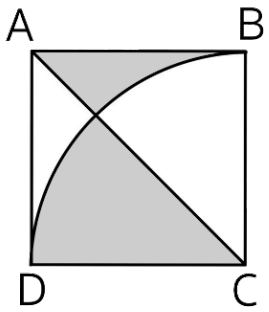
10. If $\frac{1}{a} + \frac{1}{b} + \frac{1}{c} = \frac{1}{7}$ where a, b, and c are natural numbers and $a > b > c$, what is the minimum value of $\frac{ac}{b}$?

11. If $\frac{261}{124} = a + \cfrac{1}{b + \cfrac{1}{c + \cfrac{1}{d - \frac{5}{6}}}}$, what is the value of $ab + cd$?

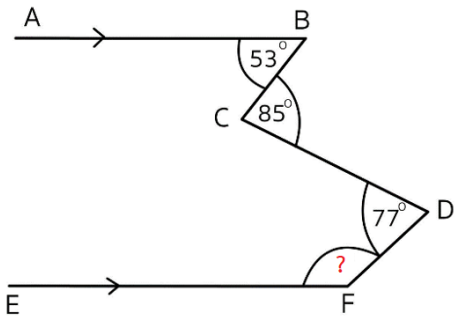
12. Yaya bought a book at a price of $12,400$ baht. If Yaya wants to sell this book at a discount of 20% to customers but still get 20% profit. How much does Yaya have to set the selling price of this book?

13. Daniel and Mario want to go to a theme park for the holidays. He drives from his house at an average speed of 80 km/h and takes 9 minutes for picking up Mario's home. Then, he drives from Mario's house to the theme park by increasing speed from the average speed by 10 km/h which takes 1 hour and 16 minutes. How long is it from the theme park to Daniel's house in kilometer?

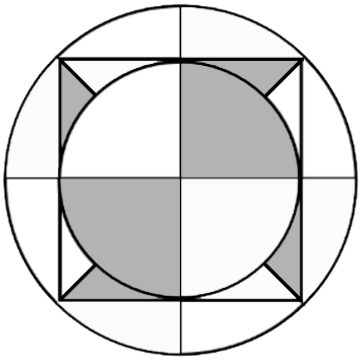
14. From the figure below, given that $\square ABCD$ is a square with an area of 784 square meters. Find the area of the shaded part.



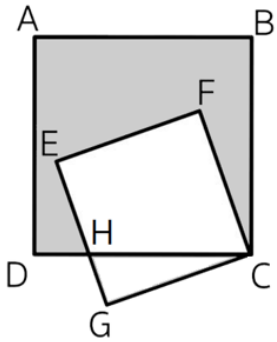
15. From the figure below, given $\overline{AB} \,//\, \overline{EF}$. Find the size of $E\hat{F}D$.



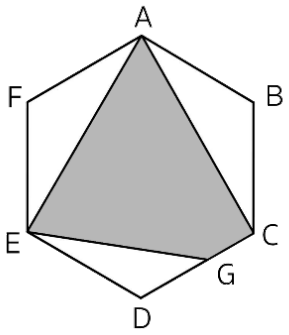
16. Figure below, the square inscribed in the circle has a perimeter of 96 cm. Find the area of the shaded part.



17. The figure below is formed by two squares partially overlap. Let the area of $\square ABCD$ be 25 square centimeters. The perimeter of $\square EFCG$ is 8 centimeters shorter than $\square ABCD$ and the area of ΔGHC is 2 square centimeters. Find the area of the shaded part.



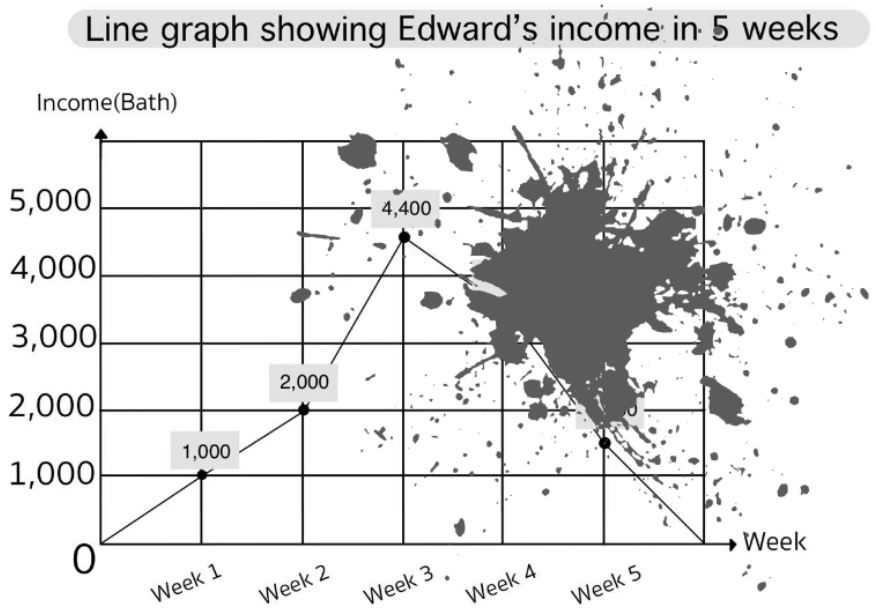
18. Let ABCDEF be a regular hexagon as shown in the below figure. If **G** is the midpoint of $\overline{DC}$ and the area of ΔEDG is 36 square centimeters, then find the area of the shaded part.



19. The teacher writes numbers from 1 to 20 on the board to play the game "Delete the numbers". The rule for this game as follows:
    - Choose two numbers such that one evenly divides the another.
    - Delete these two numbers and write the quotient of these numbers on the board.

    If the teacher lets the students come out and play games like this until they cannot choose any number according to the rules, there are N remaining numbers on the board. Find the minimum value of N.

20. The information on Edward's income from delivering food in 5 weeks is shown in the figure below.

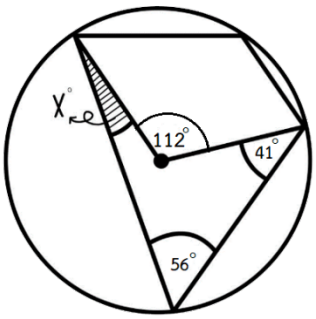


If Edward's income in the fourth week is $1,700$ baht greater than the fifth week and the total income for 5 weeks is $12,300$ baht, how much his income in the fifth week is greater than the first week?

21. If $1+2+3+4+5+\ldots+\square < 180$ and $\square$ represents the largest natural number that makes this inequality true, what is the largest natural number ($\square$)?

22. On Eden's farm, the ratio of pigs to cows is $3:5$. If 20 cows are sold and 4 pigs are bought, the number of pigs and cows will be equal on Eden's farm. How many pigs were there on Eden's farm?

23. From Figure below, find the size of $\widehat{X}$.



24. From the natural numbers $1, 2, 3, ..., 2023$, how many numbers are there that have exactly two digits of 5 and stand next to each other?

For example, 155, 553, $1,255$ but not 515, 555.

25. Mary has 12 pieces of bread and she wants to share all the bread with Sara, Cindy, Judy, Johnny and Tommy. Under the condition that each person must have at least two pieces of bread, how many different ways does Mary have to divide the bread?

ANSWERS P.6

No.	Answer	No.	Answer
1	555	14	392
2	65	15	135
3	3	16	288
4	877	17	18
5	967	18	252
6	85	19	4
7	40	20	600
8	114	21	18
9	13	22	36
10	28	23	15
11	20	24	36
12	360	25	15
13	126		