1. Find the value of $12 + 72 \times 99 + 27 \times 99 - 9,258$.

2. What is the smallest integer that is greater than $3.458 + 7.92 \times 2.13$?

3. A father has money $64,800$ baht. He spends $\frac{2}{3}$ of the money to buy a computer and $\frac{37}{40}$ of the remainder to buy a mobile phone. If he divides the rest of the money between two children equally. How much money will each child get?

4. Let P be the largest 3-digit number which when divided by 13 leaves the remainder 11. What will be the remainder when P is divided by 15?

5. Let $\frac{3}{5} + \frac{5}{12} - \frac{2}{3} = \frac{A}{B}$ where $\frac{A}{B}$ is the simplest form. Find the value of $A + B$.

6. Given that $2 \square 4 = (2 + 2 + 2 + 2) \times (4 + 4) = 64$

   $3 \square 5 = (3 + 3 + 3 + 3 + 3) \times (5 + 5 + 5) = 225$

   What is the value of $(6 \square 3) - (8 \square 2)$?

7. Given a series $12, 12, A, 17, 26, 42, 67, B$. Find the value of $B - A$.

8. A three-digit counting number satisfies the following properties:

   - it is a unique number,
   - it is divisible by 9,
   - it is between $200 - 500$.

   When all the possible numbers are arranged in descending order, what is the sum of the numbers in 5^{th} and 18^{th} order?

9. Mario spends time to study three subjects: Mathematics, Science, and English on a weekend as follows.

   - Study Maths for $1\frac{3}{5}$ hours;
   - Study Science more than Maths for $\frac{13}{15}$ hours;
   - Study English less than Science for $1\frac{7}{10}$ hours.

   How much total time in minutes does Mario study three subjects this weekend?

10. Consider a series of figures below.

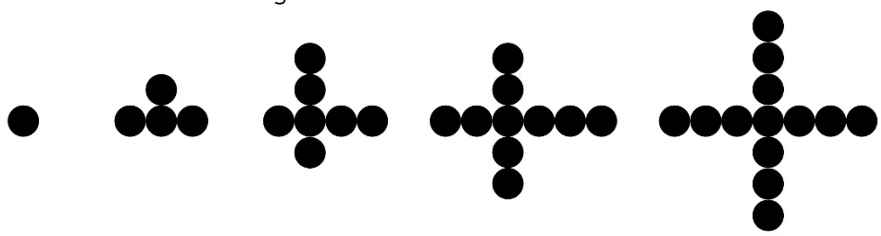


Figure 1 Figure 2 Figure 3 Figure 4 Figure 5

In Figure 24 and Figure 46, how many dots ● are there in total?

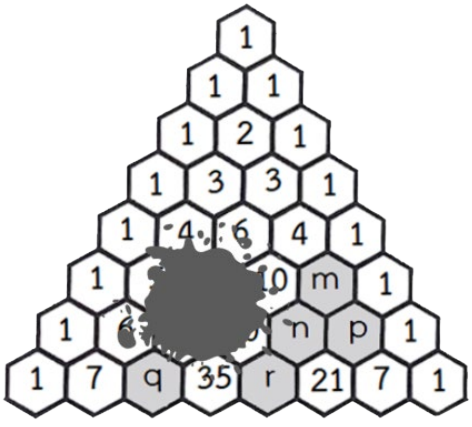
11. Sudoku 6×6 is a 6×6 grid consisting of six 2×3 grids as in the figure.

The rule of Sudoku 6×6 is that the numbers $1,2,3,4,5$ or 6 must be filled only once in each row, each column, and each 2×3 grid.

If the numbers in this Sudoku are complete, what is the sum of all numbers in the shaded grids?

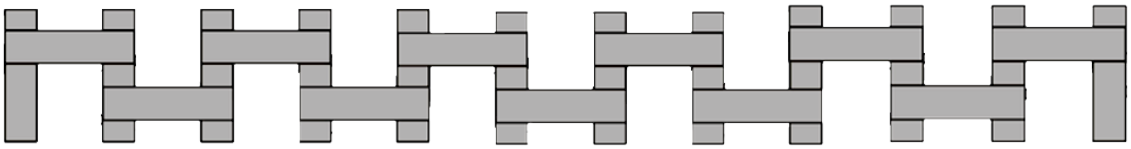
4		3		1	
	6		3	2	
	5		2		3
2	3			5	
3		2		4	5
	4		1		

12. Consider the numbers in the hexagons that are related as in the figure.



If $m,n,p,q,$ and r represent numbers with such relation, then find $m+n-p+q-r$?

13. As in the figure below, Harry built a fence using 23 pieces of wood sticks in this shape ▭, each stick is 2 meters long and half a meter wide.

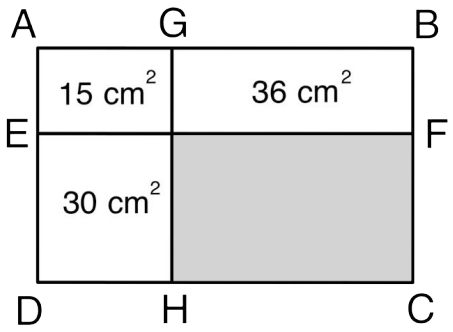


How many meters long is the fence?

14. The area of a rectangle is 224 square centimeters. If the length of the rectangle is 2 cm. longer than the width, then find the perimeter of this rectangle.

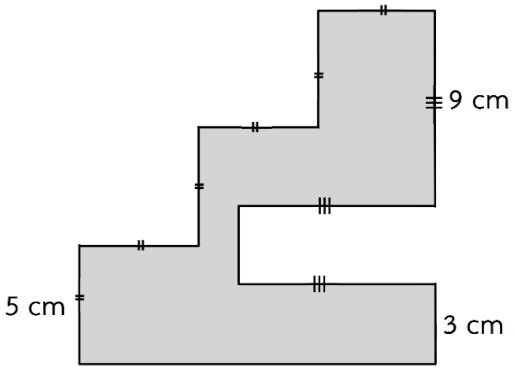
15. How many different rectangles with integer side length can be formed so that the area of the rectangle is 120 square centimeters?

16. In the figure below, $\square ABCD$ is a rectangle with a perimeter of 52 cm. $\overline{EF}$ and $\overline{GH}$ divide the figure $\square ABCD$ into 4 rectangles.



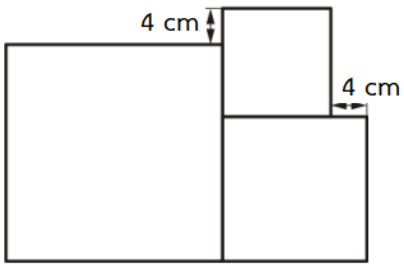
Find the shaded area.

17. An irregular polygon with some side length is given as follows:



Find the perimeter of this polygon.

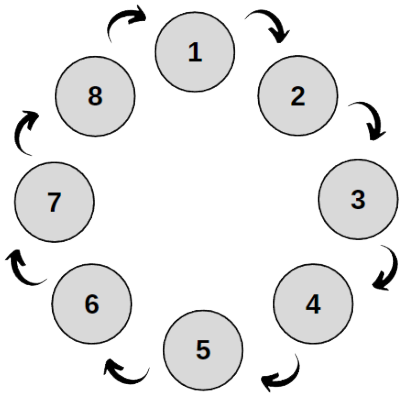
18. Three squares are arranged next to each other as in the figure below.



The area of the smallest square is 144 square centimeters. What is the area of the largest square in square centimeters?

19. A group of 8 students plays a game "Mathematics Thinking Fun" with the rules that.

- All 8 students must sit in a circle according to the position shown in the picture.



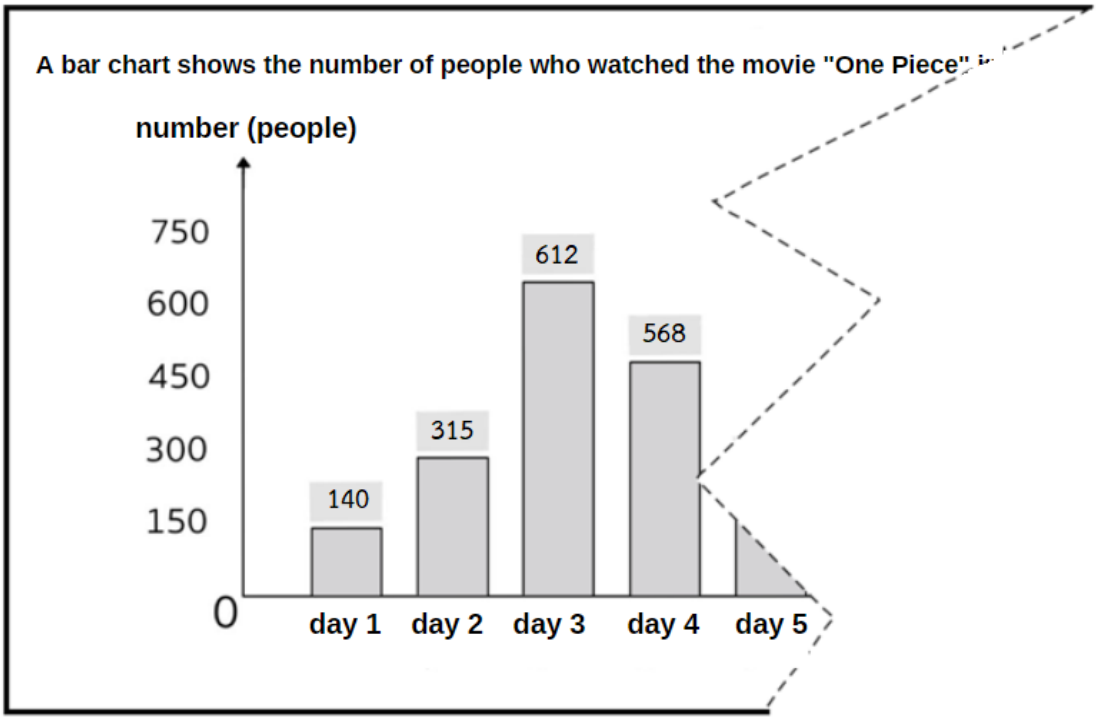
- The students sitting in the 1^{st} position must start the game with counting number 1.
- The student sitting next position must continue counting up to 3 numbers of consecutive number(s). Do this repeatedly.
- The student counting the last number that is divisible by $5, 6,$ or 41 will immediately lose in this game.

If all students count up to the most number as possible each turn, which position of the student will be the loser in this game?

20. ASMOPSS theater opens daily from $10:00$ a.m. – $10:00$ p.m.

The movie tickets for every seat are at the same price of 120 baht per seat and the popcorn set consisting of 1 bucket of popcorn and 1 glass of water costs 250 baht. A new movie is released this week 'One Piece' and it can make money $591,600$ baht within the first five days.

(This includes both movie tickets and popcorn sets)

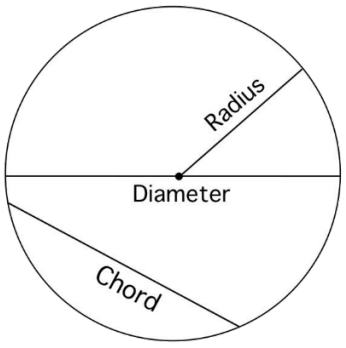


From the chart shown, some data is missing. To remake the chart, it is given that the income of the movie 'One Piece' from the popcorn sets is $375,000$ baht. On the 5^{th} day, how many people went to the movie 'One Piece'?

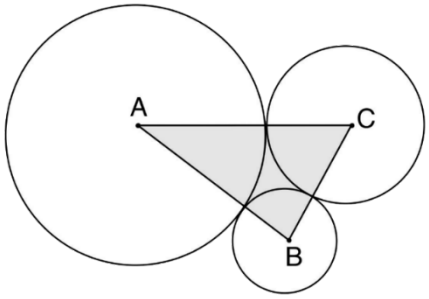
21. What is the smallest sum of 30 different counting numbers?

22. Noah's weight is 45 kg. Sara's weight is 3 kg more than Potter's. If the average weight of all three people is 40 kg, how many kilograms does Sara weigh less than Noa?

23. A circle is a two-dimensional geometric shape formed by contiguous points. where every point is at a distance from a fixed point at the same distance from all points. This fixed point is called "center of circle"
Additionally, there are other components such as radius, diameter, chord, etc.
Example of a circle's components



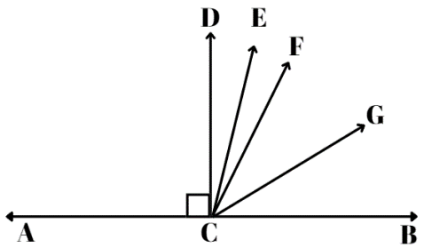
chord is a line segment that extends from one point of the circle to another.
diameter is the chord that passes through the center of the circle and is twice the radius.
Radius is a line segment drawn from one point of the circle to the center of the circle.



From the circles A, B and C the diameter is 24.5 cm., 7.5 cm. and 14 cm, respectively, What is the perimeter of triangle ABC in centimeters?

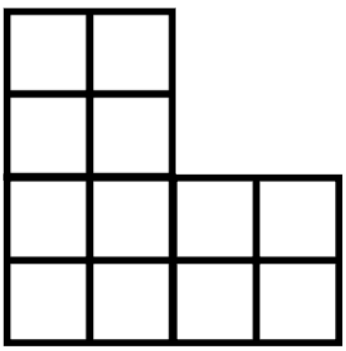
(The perimeter of a triangle is the sum of the lengths of all sides of the triangle.)

24. In the figure below, $\overrightarrow{CD}$ is perpendicular to $\overleftrightarrow{AB}$.



How many acute angles are more than obtuse angles?

25. How many rectangles are there in the picture shown below?



ANSWERS P.5

No.	Answer	No.	Answer
1	555	14	60
2	21	15	8
3	810	16	72
4	9	17	78
5	27	18	576
6	68	19	1
7	90	20	170
8	756	21	465
9	290	22	6
10	206	23	46
11	68	24	6
12	0	25	51
13	17		