

1. Tokyo is 12 years old and Kiera is 8 years old.

How old will Tokyo be when Kiera is 22 years old?

- A) 26
B) 18
C) 20
D) 22

(Correct +3, Wrong 0, Blank 0)

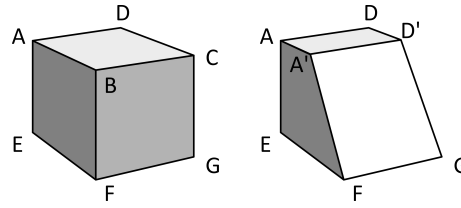
2. Find the next number.

1, 4, 10, 19, 31, ____

- A) 45
B) 38
C) 46
D) 40

(Correct +3, Wrong 0, Blank 0)

3. A cake in the shape of a cube ABCD.EFGH is cut. The cut starts from the line exactly halfway between AD and BC, straight to the line FG as shown. So line A'D' was exactly in the middle line AD and BC. After that the smaller part is eaten.



How many percent cake is left compared to the original cake?

- A) 25%
B) 60%
C) 50%
D) 75%

(Correct +3, Wrong 0, Blank 0)

4. Consider the following financial report.

Komodo Company Income Statement September, 2021	
Net sales	5,800,000
Cost of sales	2,550,000
Gross profit	3,250,000
Operating Expenses	600,000
Operating Income	2,650,000
Gain (Loss)	(900,000)
Other Income	250,000
Income before taxes	2,000,000
Tax expenses	500,000
Net Income	1,500,000

According to the above report. Which of the followings is the correct way to calculate the "Operating Income"?

- A) "Net sales" - "Cost of sales" - "Operating Expenses"
B) "Net sales" - "Cost of sales" + "Operating Expenses"
C) "Income before taxes" - "Cost of sales" + "Operating Expenses"
D) "Income before taxes" - "Cost of sales" + "Operating Expenses"

(Correct +3, Wrong 0, Blank 0)

5. Andy scored 15 points fewer than Bob, who scored 75 points. Cindy scored half as many points as Andy.

How many points did Cindy score?

- A) 45
B) 30
C) 60
D) 15

(Correct +3, Wrong 0, Blank 0)

6. The average of three numbers is 99.

If one of them is increased by 9, the average will increase by ____.

- A) 11
B) 9
C) 1
D) 3

(Correct +3, Wrong 0, Blank 0)

7. Blindfolded, Andy has to choose one ball from six balls that are numbered with six consecutive integers, but Andy doesn't know the actual numbers.

What is the probability that Andy picks an odd-numbered ball?

- A) $\frac{1}{3}$
B) $\frac{1}{2}$
C) $\frac{1}{4}$
D) $\frac{1}{6}$

(Correct +3, Wrong 0, Blank 0)

8. Andy, Ben, and Charles are playing a card game using the cards below. Each player is given three cards with different colors at random. Then, the player calculates the sum of the numbers in their cards. The winner is the one with the greatest sum.

It's known that Andy got card 1, Ben got card 6, and Charlie got card 9. **What is the probability that Andy wins the game?**



- A) $\frac{1}{4}$
B) $\frac{3}{4}$
C) $\frac{1}{2}$
D) 0

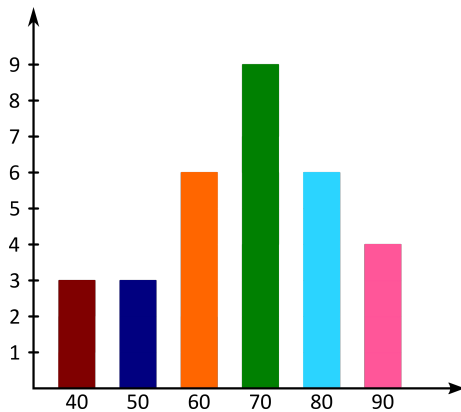
(Correct +3, Wrong 0, Blank 0)

9. When two fair dice are rolled, what is the probability of getting a sum of 11?

- A) $\frac{1}{12}$
 B) $\frac{1}{15}$
 C) $\frac{1}{18}$
 D) $\frac{1}{6}$

(Correct +3, Wrong 0, Blank 0)

10. Below is the chart of a maths exam result. But there is a mistake in the chart, one students got 30 marks lower than he should.



What is the average mark of the classroom once the mistake has been fixed?

- A) 81
 B) 71
 C) 80
 D) 70

(Correct +3, Wrong 0, Blank 0)

11. Three kids: Andy, Bruce, and Clara, play a tournament of tennis. It is known that Andy won twice and Bruce won once. No draw is allowed.

How many time(s) did Clara win?

(note: in a tournament, every participant plays exactly once against every other participant)

- A) 2
 B) 3
 C) 1
 D) 0

(Correct +3, Wrong 0, Blank 0)

12. When two unfair coins are tossed, the probability that they show two Heads is $\frac{1}{6}$ and the probability that they show two Tails is $\frac{1}{4}$.

What is the probability they show at least one Head?

- A) $\frac{5}{12}$
 B) $\frac{1}{4}$
 C) $\frac{3}{4}$
 D) $\frac{7}{12}$

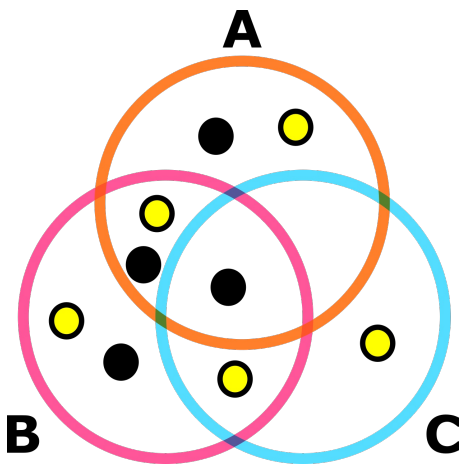
(Correct +3, Wrong 0, Blank 0)

13. How many multiples of 8 are there between 21 and 155?

A) 19
B) 18
C) 17
D) 16

(Correct +3, Wrong 0, Blank 0)

14. Andy, Ben, and Charlie are playing marbles. They drew three overlapping circles A, B, and C and threw their marbles randomly such that the marbles are in the following configuration.

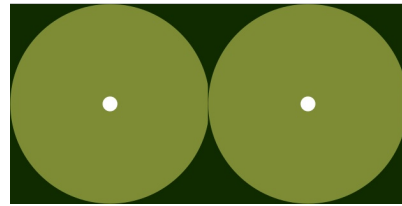
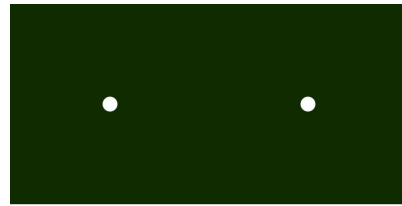


What percentage of black marbles are inside exactly two circles compared to all black marbles?

A) 25%
B) 20%
C) 50%
D) 40%

(Correct +3, Wrong 0, Blank 0)

15. A neighborhood park has width of 10 meters and length of 20 meters. Two lamps are installed in a specific place as shown in the first picture. However the two lamps can only light its surrounding area up to 5 meters away from the lamp as shown in the second picture.



Find the area of the dark area in the park. (Use $\pi = 3.14$, and write your answer only in numbers.)

A) $43m^2$
B) $78.5m^2$
C) $157m^2$
D) $15.7m^2$

(Correct +3, Wrong 0, Blank 0)

16. When an integer is divided by 2, it leaves a remainder of 1. When divided by 3, it leaves a remainder of 2.

When that integer is divided by 6, it leaves a remainder of ____.

A) 1
B) 5
C) 2
D) 3

(Correct +3, Wrong 0, Blank 0)

17. The average of the numbers $1, 5, 2, x, 3, x, 4, 5, x$ is equal to the average of the numbers $2, y, y, 1, 3, 4$.

Find $x - y$.

- A) 1
 B) $-\frac{2}{3}$
 C) $\frac{4}{3}$
 D) $-\frac{5}{3}$

(Correct +3, Wrong 0, Blank 0)

18. A coin is not fair: when it is tossed, the probability of getting a Head is twice the probability of getting a Tail.

If that coin is tossed three times, what is the probability of getting two Heads and one Tail?

- A) $\frac{4}{9}$
 B) $\frac{2}{3}$
 C) $\frac{4}{27}$
 D) $\frac{8}{27}$

(Correct +3, Wrong 0, Blank 0)

19. If an integer that divides 2022 is chosen at random, what is the probability that it is a prime number?

- A) $\frac{1}{3}$
 B) $\frac{3}{8}$
 C) $\frac{3}{16}$
 D) $\frac{3}{4}$

(Correct +3, Wrong 0, Blank 0)

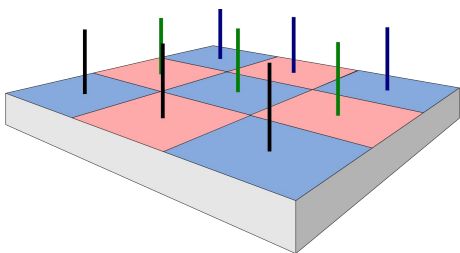
20. A wire in a shape of a circle is cut into three parts, each of the same length. The three parts is then bent to make three new circles.

What is the ratio between the total area of the three new circles compared to the initial one?

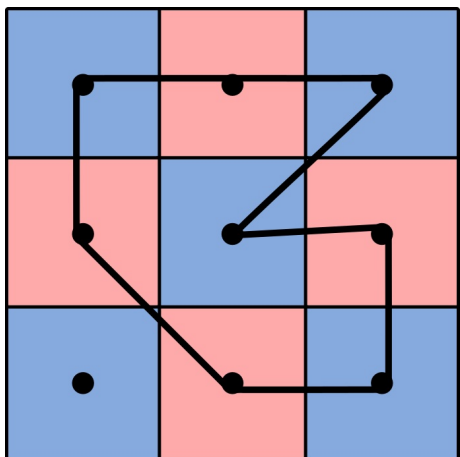
- A) $1 : 3$
 B) $1 : 2$
 C) $1 : 9$
 D) $1 : 6$

(Correct +3, Wrong 0, Blank 0)

21. A checkerboard consists of 3×3 unit squares. Nine pegs are fixed on the board, each in the center of all the squares.



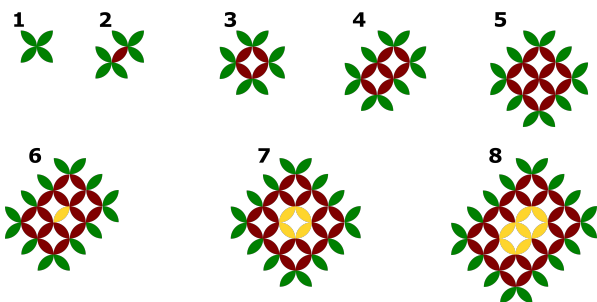
A rubber band is inserted into the pegs in such a way to form the shape as shown below.



What is the area encircled by the rubber band in unit square? (Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

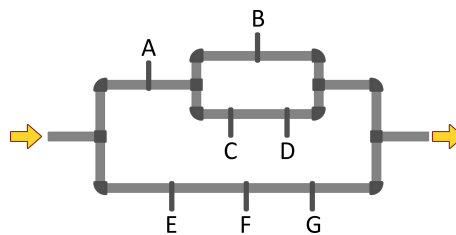
22. The following shows a growth of a plant at the end of each month.



How many leaves does the plant have at the end of its first year? (Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

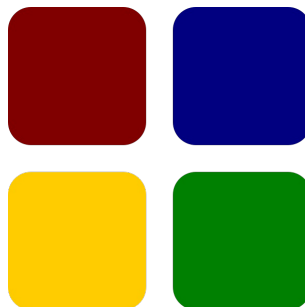
23. The following shows a configuration of pipes. Water current enters from the left and exits to the right. In the system there are seven valve, A, B, C, D, E, F, and G. These valves can be closed and opened. If a valve is open it let water pass through, otherwise it won't.



What is the minimum numbers of valves need to be left open to let the water pass through from left to right? (Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

24. Four numbers are going to be written on 4 cards arranged as shown.



It is known that the sum of the numbers on the two top cards is 8, the sum on the two bottom cards is 7, and the sum on the two left cards is 6.

What is the sum of the numbers on the two right cards? (Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

25. If a number is added by 3, we get a new number. If the new number is multiplied by 3, we get yet another new number. If the latest number is divided by 6, we get the original number.

What is the original number? (Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

26. Given that $1, x, y, 2023$ is an arithmetic sequence.

What is $x + y$? (Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

27. Harry uses four single-digit numbers pincode for his phone. The average of all the digits is 5.

What is the sum of all the digits? (Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

28. Andy has two numbers and Bruce has three numbers. The average of Andy's numbers is equal to the average of Bruce's numbers. Bruce gives one of his numbers to Andy, then Andy's average and Bruce's average each becomes equal to 42.

What is the number that Bruce gave to Andy?
(Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

29. Given the addition of two 3-digit numbers to make twice of a 3-digit number: $\overline{abc} + \overline{bca} = 2 \times \overline{cab}$.

How many possible values are there for $\frac{3a + 4b}{7c}$
? (Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

30. If

$$\frac{1}{1 + \frac{1}{x}} = \frac{x}{2}$$

then $x =$ ____. (Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

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Yogyakarta Local Round	: 25 - 26 April 2026
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Answer Keys

No	Key	Code
1	A	KMF/2064/41QQ4
2	C	KMF/2060/3ZDXW
3	D	KMF/1957/FHQVE
4	A	KMF/1983/GTVEZ
5	B	KMF/2061/XFIT9
6	D	KMF/1938/D62TG
7	B	KMF/1951/MSUVR
8	D	KMF/1954/3DKUP
9	C	KMF/2049/97TLA
10	B	KMF/2021/D8HGQ
11	D	KMF/2041/IKFGW
12	C	KMF/1934/UU9QG
13	C	KMF/2062/LF7Q9
14	A	KMF/1996/GBAH7
15	A	KMF/2066/IAMGL
16	B	KMF/2039/CVMYF
17	D	KMF/1953/FW2TB
18	A	KMF/2044/TP2CC
19	C	KMF/2037/HRH1Z
20	A	KMF/2024/QZHLG