

1. It is said that team A has a 60% chance of winning a match against team B.

If A and B play 5 matches, how many times do we expect A to win against B?

- A) 3
- B) 2
- C) 4
- D) 1

(Correct +3, Wrong 0, Blank 0)

2. The password of Harry's phone consists of four nonzero even digits. The digits are all different and increasing from left to right.

What is the second digit (from the left) of Harry's password?

- A) 8
- B) 6
- C) 4
- D) 2

(Correct +3, Wrong 0, Blank 0)

3. Find the next number.

1, 4, 10, 19, 31, ____

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

(Correct +3, Wrong 0, Blank 0)

4. 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) 22
- D) 20

(Correct +3, Wrong 0, Blank 0)

5. The product of two numbers is 100 and their sum is 52.

What is their difference?

- A) 0
- B) 21
- C) 45
- D) 48

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

(Correct +3, Wrong 0, Blank 0)

7. 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) 15
- B) 30
- C) 60
- D) 45

(Correct +3, Wrong 0, Blank 0)

8. Consider the following financial report.

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

According to the above report. What is the ratio of "Tax expenses" compared to the "Income before taxes" in percent?

- A) 15%
- B) 20%
- C) 75%
- D) 25%

(Correct +3, Wrong 0, Blank 0)

9. 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) 2
- C) 3
- D) 5

(Correct +3, Wrong 0, Blank 0)

10. Which of the following expression are mathematically different from the other one?

1. Eric has two sets of legos, one set contains 3 pieces, the other contains 8 pieces.
2. Eric has three sets of legos, one set contains 3 pieces, and the other two each contains 4 pieces.
3. Eric has four identic sets of legos, each set has two bags, the first bag contains 3 pieces the second bag contains 2 pieces.
4. Eric has two sets of legos the first one contains 3 pieces and the second one consists of two bags, each bag contains 4 pieces.

- A) 4
- B) 3
- C) 2
- D) 1

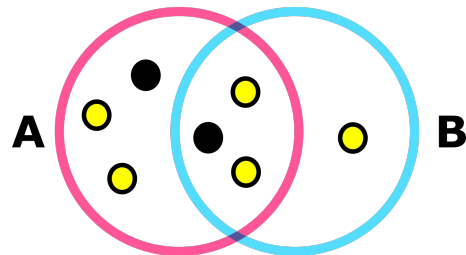
(Correct +3, Wrong 0, Blank 0)

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

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

(Correct +3, Wrong 0, Blank 0)

12. Andy and Ben are playing marbles. They made two overlapping circles called A and B and throws their marbles randomly and get the configuration as shown. The black Marbles are Andy's and the yellow ones is Ben's.



What percentage of Ben's marbles that end up in circle A or circle B, but not on both circle?

- A) 60%
- B) 20%
- C) 80%
- D) 40%

(Correct +3, Wrong 0, Blank 0)

13. 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) 0
- B) 2
- C) 1
- D) 3

(Correct +3, Wrong 0, Blank 0)

14. A wire in a shape of a circle is cut in half into two equal parts. The two parts is then bent to make two new circles.

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

- A) 1 : 2
- B) 1 : 8
- C) 1 : 4
- D) 1 : 6

(Correct +3, Wrong 0, Blank 0)

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

(Correct +3, Wrong 0, Blank 0)

16. Adam is a rabbit breeder. And he has 50 white rabbits and 100 black rabbits. It is known that half of the white rabbits are male and half are female, meanwhile, a quarter of black rabbits are male and three quarters are female?

What is the comparison between the numbers of male and female rabbits?

- A) 5 : 7
- B) 1 : 2
- C) 3 : 4
- D) 3 : 5

(Correct +3, Wrong 0, Blank 0)

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

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

(Correct +3, Wrong 0, Blank 0)

18. Consider this number pattern: 1, 4, 5, 9, 14, 23, 37, and so on.

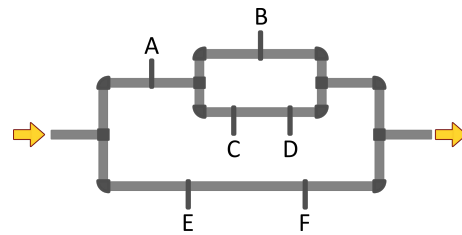
In this pattern, the sum of two neighboring numbers becomes the next number.

What is the 15th number in this pattern?

- A) 665
 B) 1076
 C) 1741
 D) 411

(Correct +3, Wrong 0, Blank 0)

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



Which of the following condition of valves that will let water pass through the sytem?

- A) Open: A, B, E, F Closed: C, D
 B) Open: A, C, F closed: B, D, E
 C) Open: A, C, E Closed: B, D, F
 D) Open: B, C, D, E Closed: A, F

(Correct +3, Wrong 0, Blank 0)

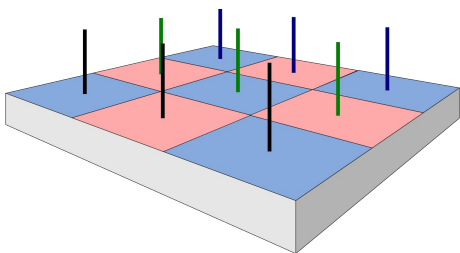
20. The area of trapezoid is given to be 3. The base of the trapezoid is 2, and the top side (parallel to base) is 1.

What is the height?

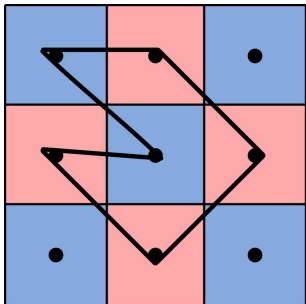
- A) 6
 B) 2
 C) 4
 D) 3

(Correct +3, Wrong 0, Blank 0)

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



Then 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.)

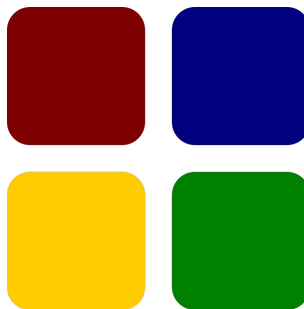
(Correct +4, Wrong 0, Blank 0)

22. When the numbers $12 \times 34 \times 56 \times 78 \times 910 \times 1112 \times 1314 \times 1516 \times 1718 \times 1920$ are multiplied, the number of zero digits (unbroken) at the end is ____.

(Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

23. Four cards are arranged into 2 by 2 table as shown. On each card is written a certain number.

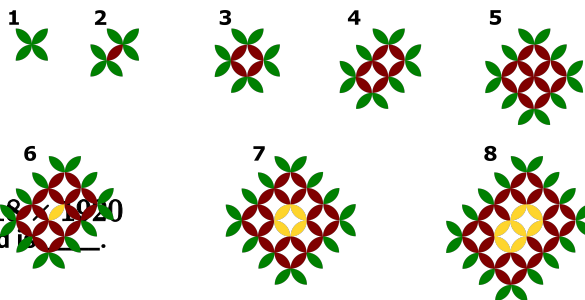


The sum of the numbers on the two top cards is 8. The sum of the numbers on the two bottom cards is 7. And the sum of the numbers on the two left cards is 6.

If the number on the top left card is 3, what is the number on the bottom right card?

(Correct +4, Wrong 0, Blank 0)

24. The following shows a growth of certain plants at the end of each month.



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

(Correct +4, Wrong 0, Blank 0)

25. From nine cards below Andy takes one card from each color. So in total he takes three cards. When he arranges the cards into a three-digit number in any order, he always gets an odd number.



How many ways can Andy take his cards? (Write your answer only in numbers.)

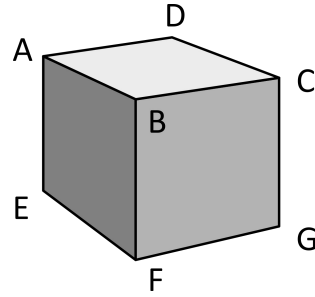
(Correct +4, Wrong 0, Blank 0)

26. Andy thinks of a positive integer. When that number is multiplied by 4, the last digit becomes 8.

If the original number is multiplied by 6, the last digit becomes ____. (Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

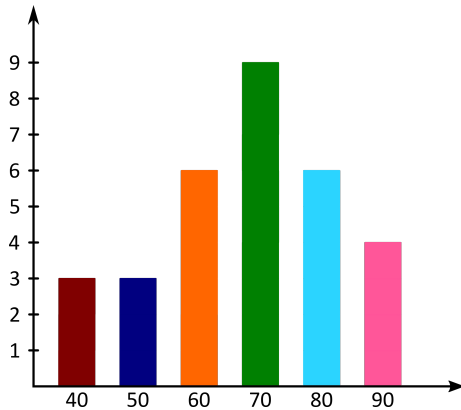
27. Ray has a cake in the shape of a cube as shown below and he has a knife.



What is the smallest number of cut that he needs to make to divide the cake into 6 parts? The parts don't have to be equal. (Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

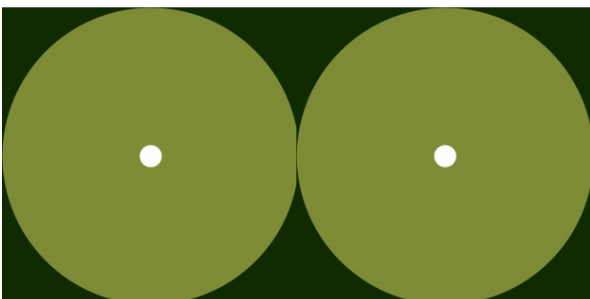
28. Below is the chart of the maths exam results. But there is a mistake in the chart. The teacher unintentionally put a score of 40 for a student, instead of 70.



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

(Correct +4, Wrong 0, Blank 0)

29. 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.)

(Correct +4, Wrong 0, Blank 0)

30. Usually Andy sleeps 7 hours a day. From March 28th, 2022 to April 1st, 2022, he slept 2 hours shorter than usual each day. From April 2nd, 2022 to April 5th, 2022, he slept 1 hour longer than usual each day.

How many hours did Andy sleep from March 28th, 2022 to April 5th, 2022? (Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

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Answer Keys

No	Key	Code
1	A	KMF/2055/YCJ44
2	C	KMF/1966/PYP8Y
3	B	KMF/2060/3ZDXW
4	A	KMF/2064/41QQ4
5	D	KMF/2063/KFCOB
6	B	KMF/1938/D62TG
7	B	KMF/2061/XFIT9
8	D	KMF/1984/59FM8
9	D	KMF/2039/CVMYF
10	B	KMF/1979/PY4RD
11	B	KMF/2062/LF7Q9
12	A	KMF/1995/DQI3Y
13	A	KMF/2041/IKFGW
14	A	KMF/2023/69S2Z
15	C	KMF/1934/UU9QG
16	B	KMF/2014/JOKUG
17	C	KMF/2049/97TLA
18	C	KMF/2065/JID3K
19	A	KMF/2003/EBVYC
20	B	KMF/2059/GVHPD