

**GIG (Global Intelligence Games) 2026-2027
GRADES 9-10 GROUP - SAMPLE QUESTIONS AND ANSWERS**

Question 1)

QUESTION MARK

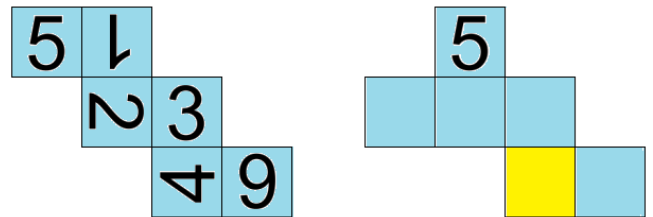
Which number will replace the question mark?

1	7	3	4
3	9	7	8
2	3	4	6
4	7	9	?

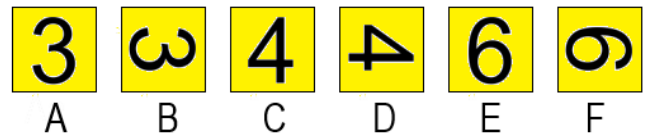
- A) 3
- B) 4
- C) 6
- D) 7
- E) 9

Question 2)

Cube



Two different openings of a cube are above. Which of the following should come to the yellow square when the faces left blank on the right are properly filled?

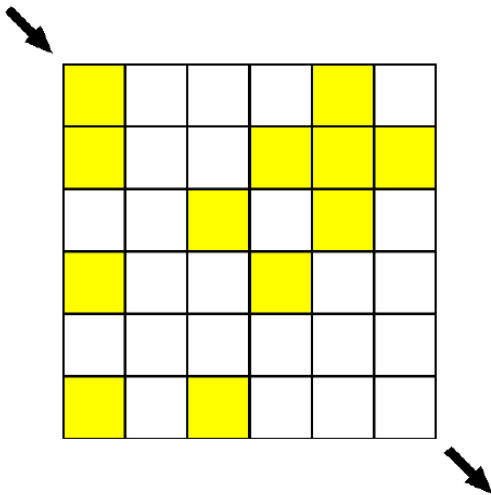


- A) A
- B) B
- C) C
- D) E
- E) F

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Question 3)

LAMPS



The squares with the dim lamps are shown in white, the squares with the lit lamps are shown in yellow. Whichever lamp you touch, the touched lamps and neighboring (horizontal and vertical) squares change their situation. So if it's off, it turns on, if it's on, it goes off.

Turn all the lamps on by touching the least number of lamps. If 1 is entered for the lamps that are touched along the diagonal and 0 is entered for the lamps that are not touched, which following result is obtained?

- A) 111000
- B) 110000
- C) 000001
- D) 010001
- E) 001100

Question 4)

RIGHTEOUS-WRONGERS

6 people named A, B, C, D, E and F are members of the "Rights" or "Wrongs" group.

-Righteous people are always right, wrongers are always wrong.

-Each group has at least 1 member.

These people, who know which group they belong to each other, make the following suggestions in turn:

- A: A and C are from different groups.
- B: The number of wrongers is 3.
- C: A and F are from the same group.
- D: F is one of the rights.
- E: The number of wrongers is one.
- F: A and D are from the same group.

Find the groups these 6 people belong to.

- A) W-R-R-R-W-R
- B) W-W-W-R-R-W
- C) R-R-W-W-R-W
- D) R-W-R-W-R-R
- E) R-W-W-W-W-R

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Question 5)

COLLECT-COLLECT

	10	35		17	37	
15			15			6
23			3			
	3			14		
5	7		8	7		
9			6			8
13			19			

Obtain the sums shown in diagonal squares by placing the numbers from 1 to 9 in empty squares. The number above the diagonal gives the sum of the squares on the right, and the number below the diagonal gives the sum of the squares below itself. What is the sum of the numbers in the blue colored diagonal?

Note:

-Each number will be used only once during the add up.

- A) 12
- B) 17
- C) 18
- D) 24
- E) 28

Question 6)

DELETE BOX

Correct the equation by deleting one of the boxes in each of the following questions. What will be the final numbers in the equation be?

Tip: Multiplication and division are prioritized over addition and subtraction in operations.

6.A

$$1 - 2 \ 8 + 1 - 4 = 1 \times 6 + 7$$

6.B

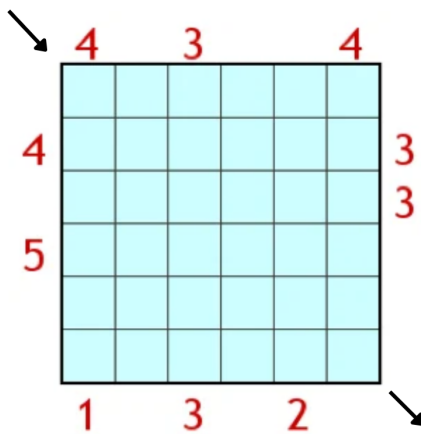
$$6 + 8 \ 5 \times 1 + 5 = 2 \ 5 + 5 \ 6$$

- A) 13 - 81
- B) 28 - 96
- C) 33 - 65
- D) 125 - 97
- E) 29 - 86

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Question 7)

APARTMENTS



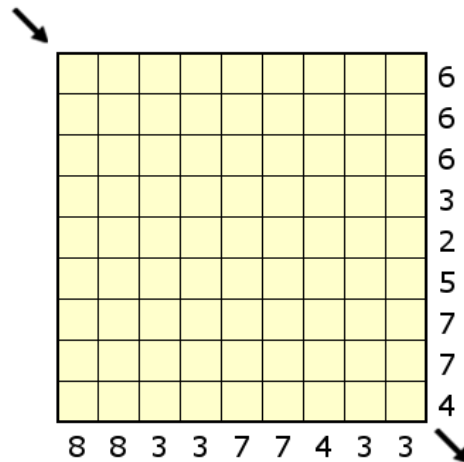
There are 6 apartments with heights from 1 to 6 in each row and each column. Since the numbers outside the table indicate the number of apartments when viewed from that direction and that there are no two apartments with the same height in any row or column, find the heights of all apartments.

Which of the following are the numbers formed along the diagonal marked in the direction of the arrow?

- A) 2-3-5-4-3-4
- B) 3-3-6-4-2-4
- C) 1-2-6-5-4-3
- D) 4-3-2-4-6-3
- E) 5-5-6-4-3-2

Question 8)

TABLES



Place the rectangular tables, which are at least 2x2 in size, on the table so that they do not touch each other, even if they are diagonally. The numbers to the right and below the table show the number of table pieces in that row or column.

Enter the status of the squares (M for squares with tables, B for empty squares) along the diagonal indicated by the arrow in response.

- A) B-M-M-M-M-M-B-B-M
- B) B-B-B-M-M-M-B-B-B
- C) M-M-M-B-B-M-B-M-M
- D) M-M-B-B-B-M-M-B-B
- E) M-M-M-M-B-B-B-M-B

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Question 9)

$$3^{3a+1} - 4^{b-1} = -7$$

$$4^{b-1} + 3^{3a-1} = 17$$

Which of the following is the ordered binary (a , b) according to the given equation?

- A) $(3, \frac{1}{3})$ B) $(-3, \frac{1}{3})$
- C) $(\frac{1}{3}, 3)$ D) $(2, \frac{1}{3})$ E) $(\frac{1}{3}, 2)$

Question 10)

Each employee in a group of 80 employees is either an engineer or a designer. The following information is given about the employees in this group.

Employees in this group work either remotely or from the office.

- 20 of them are designers who work from the office.
- 44 of them are engineers.
- 35 of them work remotely.

Accordingly, how many engineers are there who work remotely?

- A) 16 B) 19 C) 20
- D) 25 E) 30

Question 11)

In a digital library, books are classified with the following codes according to the positive integers on them.

Code A: Numbers that can be exactly divisible by 4.

Code B: Numbers that are exactly divisible by 2 but not by 4.

Code C: Odd numbers that are exactly divided by 5.

Code D: Numbers that can be fully divisible by either 2 or 5.

The numbers on three of the books that are placed side by side on the shelf are three consecutive integers. The codes of these three numbers also form a code sequence from left to right.

Accordingly, which of the following sequences of code cannot represent three consecutive integers?

- A) DBD B) ADB C) DAC
- D) DBC E) BCB

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Question 12)

A logistics center has 6 different transport routes (R1, R2, R3, R4, R5, R6) and 6 different modes of transport (Ship, Train, Airplane, Truck, Drone, Courier).

Each route is used for only one mode of transport, and each mode of transport is used on exactly one route.

Based on the information provided below, which route is the Drone on?

- The Airplane cannot be used on route R1 or R6.
- The Drone is used on the route just after the truck's route.
- The Train must be on a route with a lower number than the Ship.
- If the Courier is on R4, the Airplane must be on R3.
- Neither the Truck nor the Ship is on route R2.
- The Courier is used on route R4.
- The Truck is not used on route R5.

A) R1 B) R2 C) R3 D) R5 E) R6

Question 13)

5 waiters working in a cafe add a 10% service share to the addition for each order. At the end of the day, the total amount paid by the customers, including the service share, is 99,000 \$.

Since the service fee is divided equally among the waiters at the end of the day, how much is the service fee that each waiter receives?

- A) 1,500 \$ B) 1,650 \$ C) 1,800 \$
D) 1,980 \$ E) 2,000 \$

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GRADES 9-10 GROUP - SAMPLE QUESTION ANSWERS

Question 1) Answer : 4

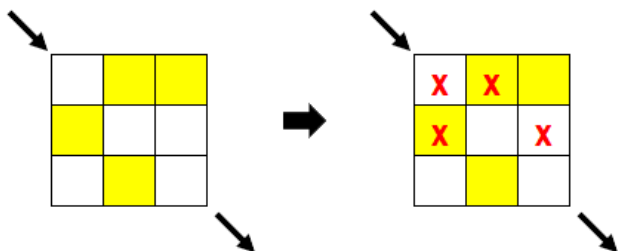
Question 2) Answer : A

Question 3)

As the answer, enter 1 for the squares you touch along the diagonal shown by the arrow, and 0 for the squares you do not touch.

Example:

If the question was asked for the table on the left, the solution would be the table on the right and 100 would be entered as the answer.



Answer : 000001

Question 4)

Enter your answer in the correct order from A to F by entering the letter D for the correctors and the Y for the wrongs. For example, if B and D were false and the others were correct, you would enter DYDYDD as the answer.

Answer : DDYYDY

Question 5)

Enter the sum of the numbers in the blue squares as the answer.

Example:

If the question was asked for the table below, the solution would be as on the right and 18, which is the sum of the numbers 5, 2, 2, 8 and 1, would be entered as the answer.

	13	3		32	10
6			3		
26			10		
	7	11			5
34		15			
7			8		



	13	3		32	10
6	5	1	3	2	1
26	8	2	10	6	9
	7	11	2	9	5
34	6	9	7	8	4
7	1	6	8	7	1

Answer: 24

Question 6)

Enter the number that forms the equation as the answer.

Example:

If the question was asked as follows, the solution would be as the one on the right and 28 would be entered as the answer.

$$3 / 9 \ 4 - 6 = 7 \times 4 / 1 \rightarrow 3 \ 4 - 6 = 7 \times 4 / 1 \rightarrow 28 = 28$$

Answer :

6.A: 13

6.B: 81

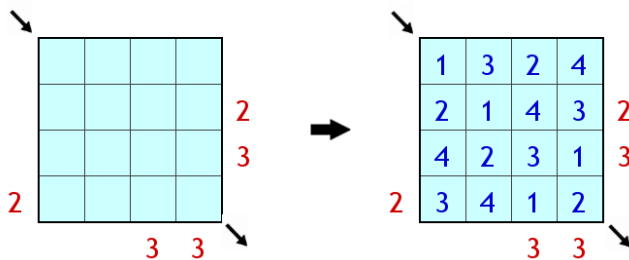
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Question 7)

Enter the numbers in the diagonal indicated by the arrow as the answer in order and without leaving a space between them.

Example:

If the question had been asked as follows for 4 apartments, the solution would have been the table on the right and 1132 would have been entered as the answer.

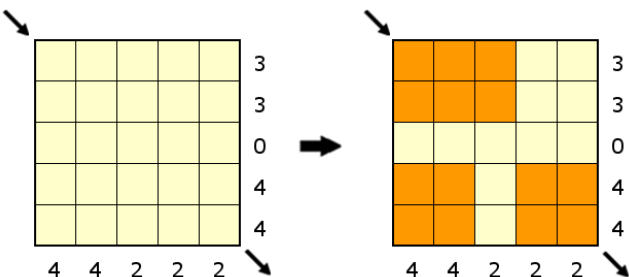


Answer: 336424

Question 8)

Example:

If the question was asked as follows, the solution would be the table on the right and MMBMM would be entered as the answer.



Answer: MMBBMBMM

QUESTION 9)

ANSWER : (1/3, 3)

$$3^{3a+1} - 4^{b-1} = -7$$

$$4^{b-1} + 3^{3a-1} = 17$$

Let's gather it upside down

$$3^{3a+1} + 3^{3a-1} = 10$$

$$3^{3a} \cdot 3^1 + 3^{3a} \cdot 3^{-1} = 10$$

$$3^{3a} \cdot 3 + 3^{3a} \cdot 1/3 = 10$$

$$10/3 \cdot 3^{3a} = 10$$

$$3^{3a-1} = 1$$

$$3 \cdot a - 1 = 0$$

$$3 \cdot a = 1$$

$$a = 1/3$$

$a = 1/3$ Let's replace the expression in one of the given equations

$$4^{b-1} + 3^{3a-1} = 17$$

$$4^{b-1} + 3^{1/3-1} = 17$$

$$4^{b-1} + 3^{1-1} = 17$$

$$4^{b-1} + 1 = 17$$

$$4^{b-1} = 17-1$$

$$4^{b-1} = 16$$

$$4^{b-1} = 4^2$$

$$b-1=2$$

$$b=3$$

$$(a,b) = (1/3, 3)$$

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QUESTION 10)

ANSWER : 19

	Office	Remote	Total
Engineer	25	19	44
Designer	20	16	36
Total	45	35	80

QUESTION 11)

ANSWER : BCB

Meaning of codes

A: Exactly divided by 4 → 4,8,12,...

B: divided by 2 but not divided by 4 → 2,6,10,14,...

C: Odd numbers divided by 5 → 5,15,25,...

D: Neither divided by 2 nor 5 → 1,3,7,9,11,...

Each integer enters exactly one of these four codes.

Let's examine the options

A) DBD

For example: 1, 2, 3

Codes: D, B, D So it can be DBD.

B) ADB

For example: 8, 9, 10

Codes: A, D, B So it can be ADB.

C) DAC

For example: 3, 4, 5

Codes: D, A, C So it can be DAC.

D) DBC

For example: 13, 14, 15

Codes: D, B, C So it can be DBC.

E) BCB

Here: It should be B, C, B.

The first number B must be even.

The second number C must be odd. This is already possible in consecutive numbers.

The third number must be B again and even.

Let the first number B be:

$$N \equiv 2 \pmod{4}$$

Since the number in the middle is $n+1$, C, it must be a single multiple of 5.

The last number is: $n+2$. Since $n \equiv 2 \pmod{4}$:

$$N+2 \equiv 0 \pmod{4}$$

So the third number has to be A coded.

Therefore, BCB is absolutely not possible.

Answer: E) BCB

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Question 12)

Answer : R2

It is given exactly that the Courier is on the R4 route in the precursors (R4=Courier).

According to the "Courier is in R4, the Aircraft must be in R3" rule, it becomes R3 = Aircraft directly.

The drone is used on the route immediately after the truck (Truck→Drone).

There can be no Truck on the R2 route. It cannot be a truck on the R5 route either. Also, the truck cannot be R3 or R4 because these routes have Aircraft and Courier respectively. In this case, only R1 remains for the Truck.

If the truck is R1, the R2 route immediately after it is a Drone. (R1=Truck, R2=Drone).

The remaining routes are R5 and R6, and the remaining vehicles are Train and Ship.

According to the rule that the Train must be on a route smaller than the Ship (Train<Ship): R5 = Train and R6 = Ship.

Route	Transportation Vehicle
R1	Truck
R2	Drone
R3	Plane
R4	Courier
R5	Train
R6	Ship

The drone is on the R2 route.

QUESTION 13)

ANSWER: 1800

Let's say 100x the amount of food and drinks excluding the service fee.

When a 10% service share is added, the total amount is 110x.

If $110x = 99,000 \$$;

$X = 99,000 / 110 = 900 \$$

Since the service fee is 10x, the total service fee collected at the end of the day:

$10,900 = 9000 \$$

Since the total service fee of 9,000 \$ is divided equally among 5 waiters:

$9.000 / 5 = 1,800 \$$

Correct Answer: C style 1,800 \$