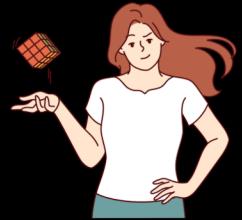




Analytical Aptitude
Daily Quiz # 1
1. Age Relations



GATE2013 CE

Abhishek is elder to Savar. Savar is younger to Anshul. Which of the given conclusions is logically valid and is inferred from the above statements?

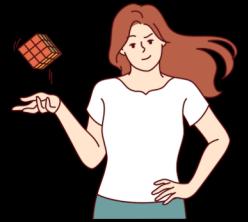
- A. Abhishek is elder to Anshul
- B. Anshul is elder to Abhishek
- C. Abhishek and Anshul are of the same age
- D. No conclusion follows



Analytical Aptitude

Daily Quiz # 2

CAT 2017 Set-1



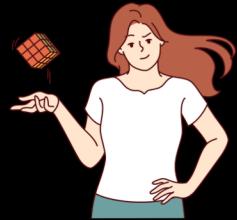
Arun's present age in years is 40% of Barun's. In another few years, Arun's age will be half of Barun's. By what percentage will Barun's age increase during this period?

- A. 15
- B. None of these
- C. 25
- D. 30



Analytical Aptitude Daily Quiz # 3

NIELIT 2016 DEC Scientist B



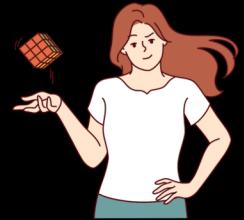
The average of the husband and his wife age was 23 years at the time of their marriage. After five years they have a one year old child. The average age of the family now is :

- A. 29.3 years
- B. 28.5 years
- C. 23 years
- D. 19 years



Analytical Aptitude Daily Quiz # 4

NIELIT 2016 DEC Scientist B



The ratio between Sumit's and Prakash's age at present is 2 : 3. Sumit is 6 years younger than Prakash. The ratio of Sumit's age to Prakash's age after six years will be :

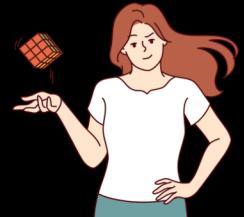
- A. 1 : 2
- B. 2 : 3
- C. 3 : 4
- D. 3 : 8



GATE AND
TECH

Analytical Aptitude Daily Quiz # 5

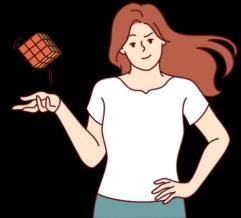
GATE2018 CE-1



Hema's age is 5 years more than twice Hari's age. Suresh's age is 13 years less than 10 times Hari's age. If Suresh is 3 times as old as Hema, how old is Hema?

- A. 14
- B. 17
- C. 18
- D. 19

2. Family Relations



[GATE Civil 2022 Set 1](#)

Given the statements:

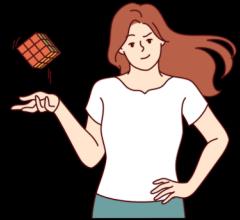
- P is the sister of Q.
- Q is the husband of R.
- R is the mother of S.
- T is the husband of P.

Based on the above information, T is _____ of S.

- A. the grandfather
- B. an uncle
- C. the father
- D. a brother

Analytical Aptitude

Daily Quiz # 7



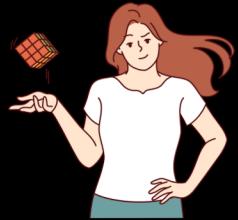
- $A + B$ means A is the father of B.
- $A \times B$ means A is the sister of B.
- $A \$ B$ means A is the wife of B.
- $A \% B$ means A is the mother of B.
- $A \div B$ means A is the son of B.

Which of the following expressions is true if Y is son of X is definitely false?

- A. $W \% L \times T \times Y \div X$
- B. $W + L \times T \times Y \div X$
- C. $X + L \times T \times Y \div W$
- D. $W \$ X + L + Y + T$



Analytical Aptitude Daily Quiz # 2



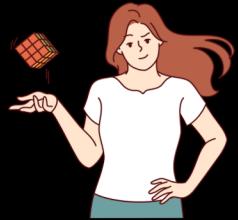
In a family of seven people Lawyer is married to a Teacher and has three sons, one Engineer, one Doctor and one Actor. The Actor's wife is a Dancer and is an Aunt of Emily. Emily, the daughter of Engineer learns martial arts with her brother Rahul. How is the Doctor related to Rahul?

- A. Uncle
- B. Son
- C. Nephew
- D. Brother



Analytical Aptitude Daily Quiz # 9

GATE Civil 2021 Set 1



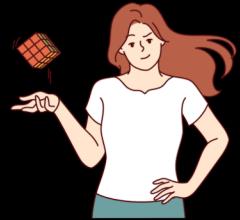
Statement: Either P marries Q or X marries Y

Among the options below, the logical NEGATION of the above statement is :

- A. P does not marry Q and X marries Y
- B. Neither P marries Q nor X marries Y
- C. X does not marry Y and P marries Q
- D. P marries Q and X marries Y



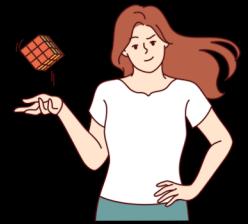
Analytical Aptitude
Daily Quiz # 1Q
GATE2019 ME-1



M and *N* had four children *P*, *Q*, *R* and *S*. Of them, only *P* and *R* were married. They had children *X* and *Y* respectively. If *Y* is a legitimate child of *W*, which of the following statements is necessarily FALSE?

- A. *M* is the grandmother of *Y*
- B. *R* is the father of *Y*
- C. *W* is the wife of *R*
- D. *W* is the wife of *P*

3. Inequality



GATE CH 2022

Consider the following inequalities.

- I. $3p - q < 4$
- II. $3q - p < 12$

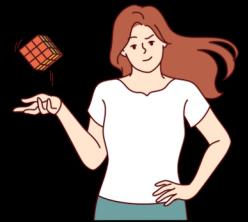
Which one of the following expressions below satisfies the above two inequalities?

- A. $p + q < 8$
- B. $p + q = 8$
- C. $8 \leq p + q < 16$
- D. $p + q \geq 16$



Analytical Aptitude Daily Quiz # 12

GATE ECE 2022

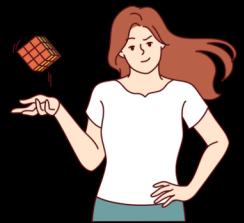


Consider the following inequalities.

- A. $2x - 1 > 7$
- B. $2x - 9 < 1$

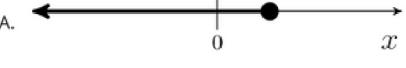
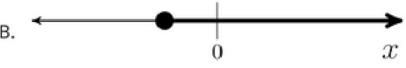
Which one of the following expressions below satisfies the above two inequalities?

- A. $x \leq -4$
- B. $-4 < x \leq 4$
- C. $4 < x < 5$
- D. $x \geq 5$



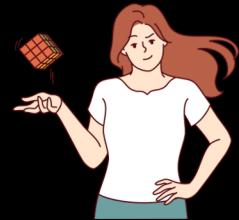
GATE Mechanical 2022 Set 2

Which one of the following is a representation (not to scale and in bold) of all values of x satisfying the inequality $2 - 5x \leq -\frac{6x - 5}{3}$ on the real number line?

- A. 
- B. 
- C. 
- D. 

Analytical Aptitude Daily Quiz # 14

GATE Mechanical 2023



Consider the following inequalities

$$\begin{aligned} p^2 - 4q &< 4 \\ 3p + 2q &< 6 \end{aligned}$$

where p and q are positive integers.

The value of $(p + q)$ is _____.

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

Analytical Aptitude Daily Quiz # 15

NIELIT Scientific Assistant A 2020 November



Relationship between different elements is provided in the statements. The statements are followed by conclusions. Study the conclusions based on the given statement and choose the correct answer.

$P \leq Q \leq R > S; T > = R; S \geq U$

Conclusions:

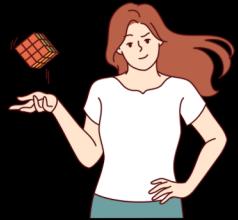
- I. $T > S$
- II. $U < R$

- A. if only conclusion (I) follows
- B. if only conclusion (II) follows
- C. if neither (I) nor (II) conclusion follows
- D. if both (I) and (II) conclusions follow



Analytical Aptitude Daily Quiz # 16

4. Direction Sense



GATE Mechanical 2021 Set 2

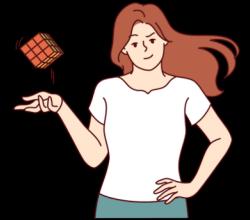
The front door of Mr. X's house faces East. Mr. X leaves the house, walking 50 m straight from the back door that is situated directly opposite to the front door. He then turns to his right, walks for another 50 m and stops. The direction of the point Mr. X is now located at with respect to the starting point is _____

- A. South-East
- B. North-East
- C. West
- D. North-West



Analytical Aptitude Daily Quiz # 17

NIELIT 2016 MAR Scientist D



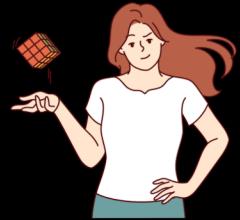
A man is facing East, then he turns left and goes 10 m, then turns right and goes 5 m, then goes 5 m to the south and from there 5 m to West. In which direction is he, from this original place?

- A. East
- B. West
- C. North
- D. South



Analytical Aptitude Daily Quiz # 12

NIELIT 2016 MAR Scientist D



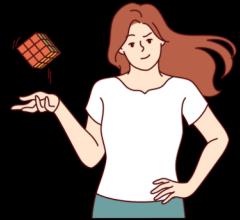
Rahim travelled straight from point *E* to *F* at a distance of 5 km. From *F* he turned left and travelled 6 km and reached point *G*, there he took a left turn and travelled 5 km to reach point *H*. He took another left turn and travelled 2 km and reached point *I*. How far is he from the starting point?

- A. 3 km
- B. 4 km
- C. 5 km
- D. 7 km



GATE AND
TECH

Analytical Aptitude Daily Quiz # 19



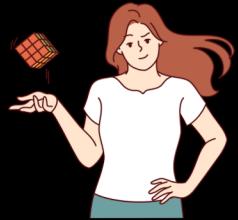
A cyclist goes 30 km North and then turns East and goes 40 km. Again he turns to his right and goes 15 km. After this he turns to his right and goes 20 km. How far is he now from his starting point?

- A. 0 km
- B. 10 km
- C. 25 km
- D. 30 km



Analytical Aptitude Daily Quiz # 20

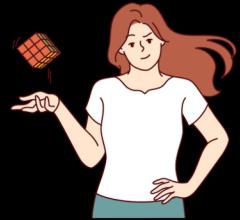
GATE Civil 2021 Set 2



On a planar field, you travelled 3 units East from a point O . Next you travelled 4 units South to arrive at point P . Then you travelled from P in the North-East direction such that you arrive at a point that is 6 units East of point O . Next, you travelled in the North-West direction, so that you arrive at point Q that is 8 units North of point P . The distance of point Q to point O , in the same units, should be _____

- A. 3
- B. 4
- C. 5
- D. 6

Analytical Aptitude
Daily Quiz # 21
**5. Round Table
Arrangement**



[GATE CSE 2017 Set 1](#)

Six people are seated around a circular table. There are at least two men and two women. There are at least three right-handed persons. Every woman has a left-handed person to her immediate right. None of the women are right-handed. The number of women at the table is

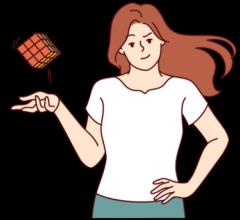
- A. 2
- B. 3
- C. 4
- D. Cannot be determined



Analytical Aptitude

Daily Quiz # 22

GATE2017 CE-2



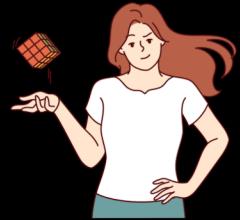
P, Q, R, S, T, and U are seated around a circular table. *R* is seated two places to the right of *Q*. *P* is seated three places to the left of *R*. *S* is seated opposite *U*. If *P* and *U* now switch seats, which of the following must necessarily be true?

- A. *P* is immediately to the right of *R*
- B. *T* is immediately to the left of *P*
- C. *T* is immediately to the left of *P* or *P* is immediately to the right of *Q*
- D. *U* is immediately to the right of *R* or *P* is immediately to the left of *T*



Analytical Aptitude Daily Quiz # 23

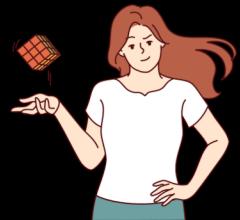
GATE Civil 2020 Set 1



Five friends P, Q, R, S and T went camping. At night, they had to sleep in a row inside the tent. P, Q , and T refused to sleep next to R since he snored loudly. P and S wanted to avoid Q as he usually hugged people in sleep.

Assuming everyone was satisfied with the sleeping arrangements, what is the order in which they slept?

- A. RSPTQ
- B. SPRTQ
- C. QRSPT
- D. QTSPR



6. Logical Reasoning

GATE CSE 2015 Set 3

The head of newly formed government desires to appoint five of the six selected members P, Q, R, S, T and U to portfolios of Home, Power, Defense, Telecom, and Finance. U does not want any portfolio if S gets one of the five. R wants either Home or Finance or no portfolio. Q says that if S gets Power or Telecom, then she must get the other one. T insists on a portfolio if P gets one.

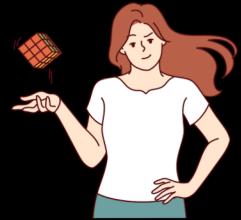
Which is the valid distribution of portfolios?

- A. P -Home, Q -Power, R -Defense, S -Telecom, T -Finance
- B. R -Home, S -Power, P -Defense, Q -Telecom, T -Finance
- C. P -Home, Q -Power, T -Defense, S -Telecom, U -Finance
- D. Q -Home, U -Power, T -Defense, R -Telecom, P -Finance



Analytical Aptitude Daily Quiz # 25

GATE CSE 2021 Set 2



Six students P, Q, R, S, T and U, with distinct heights, compare their heights and make the following observations.

- Observation I: S is taller than R.
- Observation II: Q is the shortest of all.
- Observation III: U is taller than only one student.
- Observation IV: T is taller than S but is not the tallest

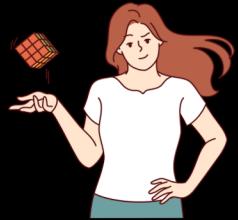
The number of students that are taller than R is the same as the number of students shorter than _____.

- A. T
- B. R
- C. S
- D. P

Analytical Aptitude

Daily Quiz # 26

GATE Civil 2020 Set 2



After the inauguration of the new building, the Head of the Department (HoD) collated faculty preferences for office space. *P* wanted a room adjacent to the lab. *Q* wanted to be close to the lift. *R* wanted a view of the playground and *S* wanted a corner office.

Assuming that everyone was satisfied, which among the following shows a possible allocation?

| | | PLAYGROUND | | | | | |
|------|-----------|------------|------|---|------|--|--|
| | | HoD | Q | R | S | | |
| ROAD | | | | | LIFT | | |
| | P | | LIFT | | LAB | | |
| | | PLAYGROUND | | | | | |
| ROAD | S R HoD Q | | | | LAB | | |
| | P LIFT | | LIFT | | LAB | | |

| | | PLAYGROUND | | | | | |
|------|-----------|------------|------|---|------|--|--|
| | | S | R | P | HoD | | |
| ROAD | | | | | LIFT | | |
| | Q | | LIFT | | LAB | | |
| | | PLAYGROUND | | | | | |
| ROAD | HoD S R Q | | | | LAB | | |
| | P LIFT | | LIFT | | LAB | | |



Analytical Aptitude Daily Quiz # 27

GATE2017 CE-1



Students applying for hostel rooms are allotted rooms in order of seniority. Students already staying in a room will move if they get a room in their preferred list. Preferences of lower ranked applicants are ignored during allocation.

Given the data below, which room will Ajit stay in ?

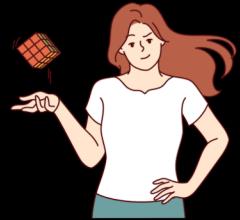
| Names | Student seniority | Current room | Room preference list |
|---------|-------------------|--------------|----------------------|
| Amar | 1 | P | R, S, Q |
| Akbar | 2 | None | R, S |
| Anthony | 3 | Q | P |
| Ajit | 4 | S | Q, P, R |

- A. P
- B. Q
- C. R
- D. S



Analytical Aptitude Daily Quiz # 28

GATE2019 IN



Five numbers 10, 7, 5, 4 and 2 are to be arranged in a sequence from left to right following the directions given below:

1. No two odd or even numbers are next to each other.
2. The second number from the left is exactly half of the left-most number.
3. The middle number is exactly twice the right-most number.

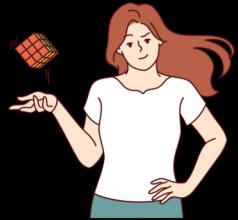
Which is the second number from the right?

- A. 2
- B. 4
- C. 7
- D. 10



Analytical Aptitude Daily Quiz # 29

GATE Mechanical 2021 Set 2



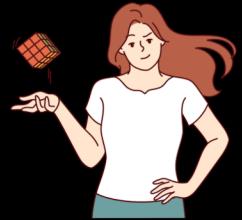
If $\oplus \div \odot = 2$; $\oplus \div \Delta = 3$; $\odot + \Delta = 5$; $\Delta \times \otimes = 10$,

Then, the value of $(\otimes - \oplus)^2$, is :

- A. 0
- B. 1
- C. 4
- D. 16



Analytical Aptitude
Daily Quiz # 3Q
7. Clock Time



GATE ECE 2020

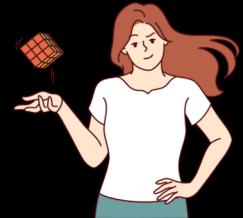
It is quarter past three in your watch. The angle between the hour hand and the minute hand is _____.

- A. 0°
- B. 7.5°
- C. 15°
- D. 22.5°



Analytical Aptitude Daily Quiz # 31

GATE Mechanical 2022 Set 1

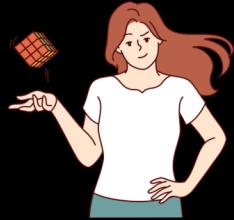


In a 12-hour clock that runs correctly, how many times do the second, minute, and hour hands of the clock coincide, in a 12-hour duration from 3 PM in a day to 3 AM the next day?

- A. 11
- B. 12
- C. 144
- D. 2



Analytical Aptitude
Daily Quiz # 32
GATE2016 EC-2

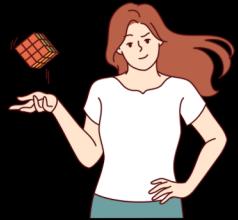


Two and quarter hours back, when seen in a mirror, the reflection of a wall clock without number markings seemed to show 1 : 30. What is the actual current time shown by the clock?

- A. 8 : 15
- B. 11 : 15
- C. 12 : 15
- D. 12 : 45



Analytical Aptitude
Daily Quiz # 33
8. Calendar



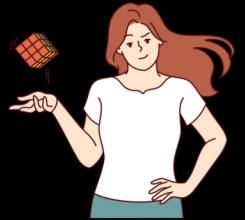
GATE Civil 2020 Set 2

For the year 2019, which of the previous year's calendar can be used?

- A. 2011
- B. 2012
- C. 2013
- D. 2014



Analytical Aptitude Daily Quiz # 34



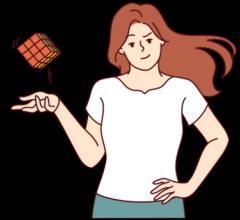
How many days are there in x weeks x days

- A. 7
- B. $14x$
- C. $7x$
- D. $8x$



Analytical Aptitude Daily Quiz # 35

NIELIT 2016 MAR Scientist D



Given: Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday

What day comes three days after the day which comes two days after the day which comes immediately after the day which comes two days after Monday?

- A. Sunday
- B. Tuesday
- C. Thursday
- D. Saturday

ANSWER

The sequence of days given is: Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday.

Monday is the first day mentioned.

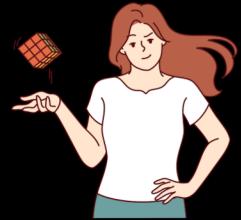
Two days after Monday is Wednesday.

Immediately after Wednesday is Thursday.

Two days after Thursday is Saturday.

Three days after Saturday is Tuesday.

Therefore, the answer is B. Tuesday.

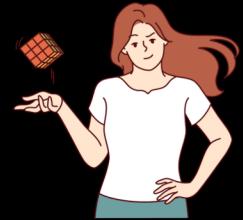


9. Ordering and Ranking

NIELIT 2017 OCT Scientific Assistant A

There is a queue in a ticketing office. Amanda is 10^{th} from the front while Murthy is 25^{th} from behind and Marta is just in the middle of the two. If there be 50 persons in the queue. What position does Marta occupy from the front?

- A. 16
- B. 18
- C. 15
- D. 17

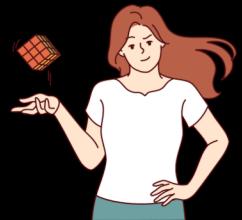


There are five janitors. Pali, Qureshi, Rohan, Sant and Timber. They all have a different height, Qureshi is shorter than only Timber and Sant is shorter than Pali and Qureshi. Who among them is the shortest?

- A. Rohan
- B. Sant
- C. Pali
- D. Data inadequate



Analytical Aptitude Daily Quiz # 38



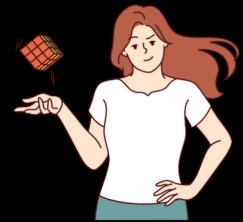
In a row of Boys, Prabhas is 15th from the left, and Kartik is 23rd from the right. If they interchange their positions, then Prabhas becomes 18th from the left. Then at what position will Kartik be from the right?

- A. 23
- B. 24
- C. 25
- D. 26



Analytical Aptitude Daily Quiz # 39

10. Statement Follows



GATE CSE 2022

Given below are four statements.

- Statement 1 : All students are inquisitive.
- Statement 2 : Some students are inquisitive.
- Statement 3 : No student is inquisitive.
- Statement 4 : Some students are not inquisitive.

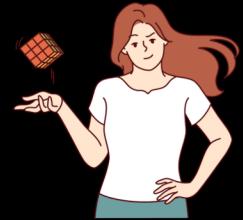
From the given four statements, find the two statements that CANNOT BE TRUE simultaneously, assuming that there is at least one student in the class.

- A. Statement 1 and Statement 3
- B. Statement 1 and Statement 2
- C. Statement 2 and Statement 4
- D. Statement 3 and Statement 4



Analytical Aptitude Daily Quiz # 4Q

GATE Civil 2021 Set 2



1. Some football players play cricket.
2. All cricket players play hockey.

Among the options given below, the statement that logically follows from the two statements 1 and 2 above, is :

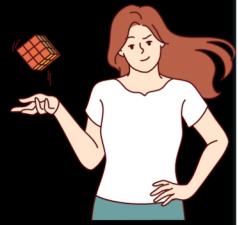
- A. No football player plays hockey
- B. Some football players play hockey
- C. All football players play hockey
- D. All hockey players play football



Analytical Aptitude

Daily Quiz # 41

GATE ECE 2021



Given below are two statements and two conclusions.

- Statement 1: All purple are green.
- Statement 2: All black are green.
- Conclusion I: Some black are purple.
- Conclusion II: No black is purple.

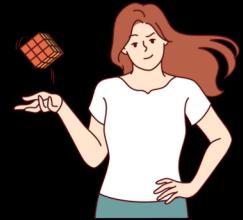
Based on the above statements and conclusions, which one of the following options is logically CORRECT?

- A. Only conclusion I is correct
- B. Only conclusion II is correct
- C. Either conclusion I or II is correct
- D. Both conclusion I and II are correct



Analytical Aptitude Daily Quiz # 42

GATE Mechanical 2021 Set 2



Given below are two statements 1 and 2, and two conclusions I and II.

- Statement 1 : All entrepreneurs are wealthy.
- Statement 2 : All wealthy are risk seekers.
- Conclusion I : All risk seekers are wealthy.
- Conclusion II : Only some entrepreneurs are risk seekers.

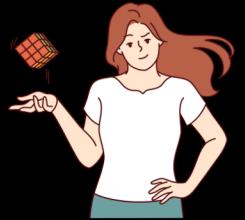
Based on the above statements and conclusions, which one of the following options is CORRECT?

- A. Only conclusion I is correct
- B. Only conclusion II is correct
- C. Neither conclusion I nor II is correct
- D. Both conclusions I and II are correct



Analytical Aptitude Daily Quiz # 43

GATE2017 CE-1



Consider the following sentences:

All benches are beds. No bed is bulb. Some bulbs are lamps.

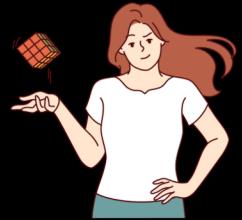
Which of the following can be inferred?

- i. Some beds are lamps.
- ii. Some lamps are beds.

- A. Only i
- B. Only ii
- C. Both i and ii
- D. Neither i nor ii



Analytical Aptitude
Daily Quiz # 44



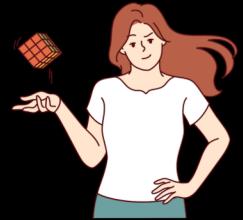
11. Sequence & Series

GATE CSE 2023

A series of natural numbers $F_1, F_2, F_3, F_4, F_5, F_6, F_7, \dots$ obeys $F_{n+1} = F_n + F_{n-1}$ for all integers $n \geq 2$.

If $F_6 = 37$, and $F_7 = 60$, then what is F_1 ?

- A. 4
- B. 5
- C. 8
- D. 9



Consider the following sequence of figures.

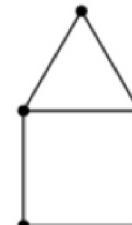


Figure 1

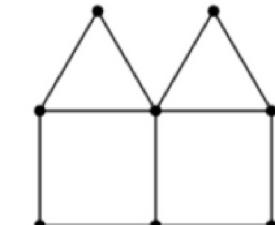


Figure 2

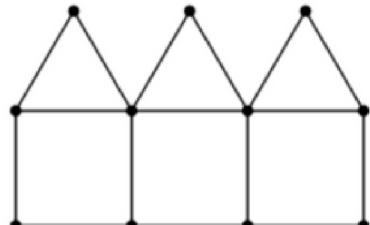


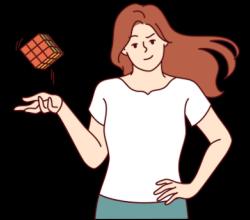
Figure 3

The total number of line segments in the first 20 figures is _____.

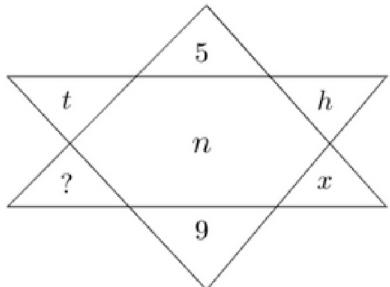
Analytical Aptitude

Daily Quiz # 46

GATE Mechanical 2020 Set 2



Find the missing element in the following figure.

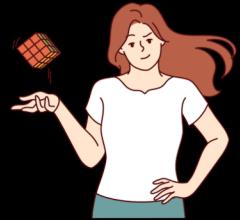


- A. d
- B. e
- C. w
- D. y



Analytical Aptitude
Daily Quiz # 47

12. Code Words



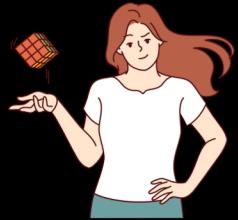
[GATE2014 EC-3](#)

Find the next term in the sequence: $7G, 11K, 13M, \underline{\hspace{2cm}}$.

- A. $15Q$
- B. $17Q$
- C. $15P$
- D. $17P$



Analytical Aptitude
Daily Quiz # 48
GATE2014 EC-4

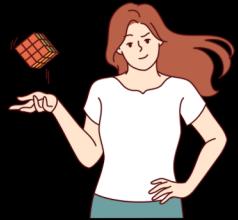


If 'KCLFTSB' stands for 'best of luck' and 'SHSWDG' stands for 'good wishes', which of the following indicates 'ace the exam'?

- A. MCHTX
- B. MXHTC
- C. XMHCT
- D. XMHTC



Analytical Aptitude Daily Quiz # 49



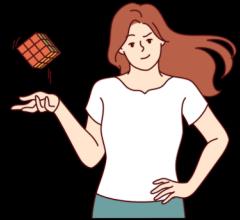
In a certain code 'BUILT' is written as '5#32@' and 'TRIBE' is written as '@935©'. How is 'RULE' written in that code?

- A. 9#2©
- B. 92#©
- C. @#2©
- D. @2#©
- E. None of these



Analytical Aptitude Daily Quiz # 5Q

NIELIT 2017 DEC Scientist B



In a certain code language, Zat Poo, Tim means Eat Good Mangoes; Pus Tim Sim means Mangoes and Sweets and Sim Poo Kit means Purchase Good sweets. Which word in that language means Good ?

- A. Poo
- B. Pus
- C. Tim
- D. Sim