

SBI Clerk Prelims 2021



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1. Directions: Given below is a passage. Read the passage carefully and answer the questions that follow.

The Amazon rainforest home to one in 10 species on Earth is on fire. As of last week, 9,000 wildfires were raging simultaneously across the vast rainforest of Brazil and spreading into Bolivia, Paraguay, and Peru. The blazes, largely set intentionally to clear land for cattle ranching, farming, and logging, have been exacerbated by the dry season. They're now burning in massive numbers, an 80 percent increase over this time last year, according to Brazil's National Institute for Space Research. The fires can even be seen from space. For the thousands of mammals, reptile, amphibian, and bird species that live in the Amazon, the wildfires' impact will come in two phases: one immediate, one long-term. The *plight* of the Amazon has received widespread attention over the past week or so as reports surfaced that Brazil which hosts around 60 percent of the world's largest tropical forest has experienced a significant spike in the number of wildfires this year. Amid this coverage, many media outlets, charities, celebrities and even world leaders repeated the claim that the Amazon produces 20 percent of the world's oxygen supply. There is a net release of oxygen while the tree is growing and storing carbon in its wood, but when the tree dies the wood rots, removing the same amount of oxygen from the air to form carbon dioxide (CO₂) from the carbon in the wood. Saleska notes that since 1990, the level of oxygen in the atmosphere has dropped by 0.005 percent, hardly at all. After Brazil, the countries with the highest primary Amazon Forest loss in 2020 were Bolivia, Peru and Colombia which suffered its second-highest loss on record followed by Venezuela and Ecuador, according to the report based on analysis of the data produced by the University of Maryland. Some have taken it to mean that we're at risk of jeopardizing the world's oxygen supply. In some forests, including many across the U.S., wildfires are essential for maintaining healthy ecosystems. Animals are adapted to cope with it; many even rely on it to *thrive*. The black-bellied woodpecker, for example, native to the American West, only nests in burnt-out trees and eats the beetles that infest burned wood.

A. According to the passage, why were the blazes set?

A

The blazes were set by the careless handling of fires by farmers.

B The blazes were set intentionally to clear the farm fields.

C The blazes were intentionally set to empty land for various purposes.

D The blazes set due to the hot dry season.

E The blazes were caused by man and are therefore preventable.

Solution

Refer to the line in the passage: ‘The blazes, largely set intentionally to clear land for cattle ranching, farming, and logging, have been exacerbated by the dry season.’

Option C can be inferred from this sentence and hence it is the right choice.

B. Which of the following statements can be inferred from the passage?

A Over 1.5 million hectares of primary forest has been burnt.

B Around 14 percent of photosynthesis occurring in the forest.

C

The concentration of oxygen in the atmosphere dropped from 20 percent to 10.4 percent.

D

The Amazon supply the planet with 20 percent of its oxygen.

E

All of the above

Solution

Refer to the lines: Amid this coverage, many media outlets, charities, celebrities and even world leaders repeated the claim that the Amazon produces 20 percent of the world's oxygen supply.

Hence, D is the correct choice.

C. Which of the following is the antonym of: ‘plight’?

A

Dilemma

B

Savour

C

Grace

D Depredation

E All of these

Solution

Plight: means an unpleasant condition, especially a serious, sad, or difficult one.

Dilemma: means a situation in which a difficult choice has to be made between two or more alternatives.

Savour: means the quality in a substance that is perceived by the sense of taste.

Depredation: means an act of attacking or plundering.

Grace: means ways of behaving that are considered polite and pleasant and is most opposite to the context here.

Hence, option C is correct.

D. Which of the following is the synonym of: ‘thrive’?

A Deliver

B Summon

C Laud

D Expand

E All of these

Solution

Thrive: means to grow and develop strongly.

Deliver: means to provide something promised or expected.

Summon: means order someone to be present.

Laud: means praise a person or their achievements highly.

Expand: means become larger or more extensive.

Hence, option D is correct.

E. Which country has the world's highest loss rate of primary amazon forest?

A Venezuela

B Ecuador

C Peru

D Brazil

E Colombia

Solution

Refer to the lines: After Brazil, the countries with the highest primary Amazon Forest loss in 2020 were Bolivia, Peru and Colombia which suffered its second-highest loss on record followed by Venezuela and Ecuador, according to the report based on analysis of the data produced by the University of Maryland.

Hence, D is the correct choice.

F. What is the reason for an 80 percent increase in the wildfires over this time last year?

A

The wildfires were caused due to global warming and hence there was increase in wildfires incidents.

B

The farmers set more lands on fire due to which the increase took place.

C

The fires set intentionally for different purposes were intensified due to dry season resulting in 80 percent increase over this time last year.

D

The increase of 80 percent in wildfires over this time last year is the result of persistent deforestation.

E

Uncontrolled fires often started accidentally by people, rampage and decimate forests.

Solution

Refer to the line: ‘The blazes, largely set intentionally to clear land for cattle ranching, farming, and logging, have been exacerbated by the dry season.

They’re now burning in massive numbers, an 80 percent increase over this time last year, according to Brazil’s National Institute for Space Research.

We can easily infer C from this sentence and hence C is the correct choice.

G. Which of the following statement is definitely false?

A

The Amazon rainforest is habitat for one in 10 species on Earth.

B

The wildfires did spread singly across the vast rainforest of Brazil and spreading into Bolivia, Paraguay, and Peru.

C There will be a huge impact on animals due to the wildfires.

D

Controlled burning does not involves setting planned fires to maintain the health of a forest.

E Both B and C

Solution

Habitat is similar in meaning to home and therefore A is correct.

The passage says the wildfires raged simultaneously but B says ‘singly’ which is opposite in meaning to simultaneously and therefore B is definitely false.

We can infer C from last line of the passage.

Hence option B is the correct choice.

Directions: Read each of the following sentences to find out if there is any grammatical error in it.

The error, if any, will be in one part of the sentence.

The number (A, B, C or D) of this part is your answer.

If there is no error in the statement, then mark option (e) as your answer choice.

2. The doctor was able to A)/ treat the disease although B)/ he could not lie his C)/ finger on the exact cause. D)

A **A**

B **B**

C **C**

D **D**

E **NO ERROR**

Solution

The correct sentence is- The doctor was able to treat the disease although he could not lay his finger on the exact cause.

(C) is the right answer as it contains an error.

In sentence C, replace “lie” with “lay”.

Lay is a verb that commonly means to put or set (something) down.

Lie is a verb that commonly means to be in or put yourself into a flat position.

Directions: Read each of the following sentences to find out if there is any grammatical error in it.

The error, if any, will be in one part of the sentence.

The number (A, B, C or D) of this part is your answer.

If there is no error in the statement, then mark option (e) as your answer choice.

3. She had used make-up A)/ skilfully to mask her bruise, B)/ and with the subdued stage C)/ light it was not scarcely visible. D)

☐ A A

☐ B B

☐ C C

☒ D D

☐ E NO ERROR

Solution

The correct sentence is- She had used make-up skilfully to mask her bruise, and with the subdued stage light it was scarcely visible.

(D) is the right answer as it contains an error.

In sentence D, remove not before scarcely.

Hardly ever, rarely, scarcely and seldom are frequency adverbs.

We can use them to refer to things that almost never happen, or do not happen very often.

They have a negative meaning. We use them without not.

Directions: Read each of the following sentences to find out if there is any grammatical error in it.

The error, if any, will be in one part of the sentence.

The number (A, B, C or D) of this part is your answer.

If there is no error in the statement, then mark option (e) as your answer choice.

4. Alternating child-care responsibility, A)/ is a far crying from asking a B)/ woman to postpone her C)/ career to raise her children. D)

☐ A A

☒ B B

☐ C C

☐ D D

☐ E NO ERROR

Solution

The correct sentence is- Alternating child-care responsibility is a far cry from asking a woman to postpone her career to raise her children.

(B) is the right answer as it contains an error.

In sentence B, replace “crying” with “cry”.

The idiomatic expression far cry means "very different from or to be completely different from something.”

Directions: Read each of the following sentences to find out if there is any grammatical error in it.

The error, if any, will be in one part of the sentence.

The number (A, B, C or D) of this part is your answer.

If there is no error in the statement, then mark option (e) as your answer choice.

5. **Send this special birthday wish A)/ just to let you knew that B)/ you will always be remembered C)/ for the thoughtfulness you show. D)**

A A

B B

C C

D D

E NO ERROR

Solution

The correct sentence is- Send this special birthday wish just to let you know that you will always be remembered for the thoughtfulness you show.

(B) is the right answer as it contains an error.

In sentence B, replace “knew” with “know”.

After let, help, make, we use the base infinitive, not the infinitive form of the second verb.

LET means permit or allow something to happen.

Grammatical structure: LET + person/thing +verb (base form).

Directions: Read each of the following sentences to find out if there is any grammatical error in it.

The error, if any, will be in one part of the sentence.

The number (A, B, C or D) of this part is your answer.

If there is no error in the statement, then mark option (e) as your answer choice.

6. The IAEA does not take any direct part in the A)/negotiations but has been called on to B)/verify any nuclear steps agreed in the talks C)/and to continue inspections in the country. D)

A A

B B

C C

D D

E NO ERROR

Solution

(E) is the right answer as the sentence is grammatically and meaningfully correct.

Directions: In each of the questions given below a sentence is given with three words in italics.

Choose the option which gives the correct sequence of these words to make the sentence grammatically and contextually correct.

7. **While we can't all install wind *tweaks* *A*) on our lunch breaks, we all can make *turbines* *B*) to our lunches and our lives in general to facilitate less *waste* *C*).**

A ACB

B BAC

C CAB

D BCA

E No rearrangement required

Solution

The sentence after rearrangement is- While we can't all install wind turbines on our lunch breaks, we all can make tweaks to our lunches and our lives in general to facilitate less waste.

BAC is the correct sequence.

Hence, option (b) is the right answer choice.

Directions: In each of the questions given below a sentence is given with three words in italics.

Choose the option which gives the correct sequence of these words to make the sentence grammatically and contextually correct.

8. The temporary *agreement A)* continued that *extension B)* and a one-month *monitoring C)* ended overnight.

A ACB

B BAC

C CAB

D BCA

E No rearrangement required

Solution

The sentence after rearrangement is- The temporary agreement continued that monitoring and a one-month extension ended overnight.

ACB is the correct sequence.

Hence, option (a) is the right answer choice.

Directions: In each of the questions given below a sentence is given with three words in italics.

Choose the option which gives the correct sequence of these words to make the sentence grammatically and contextually correct.

9. *Find A)* out the main things we've *learned B)* with some realistic suggestions for how you can *reduce C)* your own household food waste.

A ACB

B BAC

C CAB

D CBA

E No rearrangement required

Solution

The sentence is grammatically and contextually correct.

Hence, option (e) is the right answer choice.

10. Direction: In the following passage some words have been deleted.

Fill in the blanks with the help of the alternatives given.

Select the most appropriate option for each blank.

If all the given words fit perfectly, then select ‘All fit’ as the answer.

Food waste, that 1_ that sends more than a third of our food supply to rot and is a major contributor to climate change, seems like it should be easy to address. Here we are in the thick of Earth Month, on a day designated as “Stop Food Waste Day,” and you probably don’t need to look further than your own kitchen or cafeteria to see edible food --2--. In the U.S. more than 80 percent of food waste has been 3_ to homes and consumer-facing businesses. So, the silver lining of addressing food waste is that everyone can dial up their self-awareness and make a big impact. Systemic efforts to do things like improve our food 4_, reimagine our grocery stores and kitchens, reform date labels, and rethink catered events can make it harder for us to 5_ waste by adjusting our surroundings, and not guilting or shaming us.

A. Select the most appropriate option to fill in blank No.3

A Resisted

B Traced

C Suspended

D Simplified

E All fit

Solution

In the given sentence, only 'traced' makes it grammatically as well as contextually correct.

If you trace someone or something, you find them after looking for them.

Option a): is incorrect as resisted means to withstand the action or effect.

Option c): is incorrect as suspended means to stop something, either temporarily or permanently, from happening or continuing.

Option d): is incorrect as simplified means make something simpler or easier to do or understand.

B. Select the most appropriate option to fill in blank No.4

A Crudeness

B Disregard

C Literacy

D Ignorance

E

All fit

Solution

In the given sentence, only 'literacy' makes it grammatically as well as contextually correct.

Literacy means competence or knowledge in a specified area.

Option a): is incorrect as crudeness means behaviour that is rude and offensive.

Option b): is incorrect as disregard means the action or state of paying no attention to something.

Option d): is the incorrect as ignorance means lack of knowledge or information.

C. Select the most appropriate option to fill in blank No.5

A

Mindlessly

B

Evidently

C

Patently

D

Obviously

E All fit

Solution

In the given sentence, only ‘mindlessly’ makes it grammatically as well as contextually correct.

Mindlessly means without justification and with no concern for the consequences.

Option b): is incorrect as evidently means in a way that is easy to see.

Option c): is incorrect as patently means in a way that is clear.

Option d): is incorrect as obviously means in a way that is easily perceived or understood.

D. Select the most appropriate option to fill in blank No.2

A Commenced

B Inducted

C Streamlined

D Dumped

E All fit

Solution

In the given sentence, only ‘dumped’ makes it grammatically as well as contextually correct.

If something is dumped somewhere, it is put or left there because it is no longer wanted or needed.

Option a): is incorrect as commenced means to begin something.

Option b): is the incorrect as inducted means to admit someone formally to a post or organization.

Option c): is incorrect as streamlined means to make business or process more modern or simple.

E. Select the most appropriate option to fill in blank No. 1

A Scourge

B Infirm

C Mould

D Assemble

E

All fit

Solution

In the given sentence, only ‘scourge’ makes it grammatically as well as contextually correct.

Scourge means something causing great trouble or harm.

Option b): is incorrect as infirm means not physically or mentally strong.

Option c): is incorrect as mould means influence the formation or development of something.

Option d): is incorrect as assemble means gather together in one place for a common purpose.

11.

Direction: Answer the following questions after rearranging the following sentences into a coherent paragraph.

A) The report quoted a statement from Iran's nuclear department that asked the International Atomic Energy Agency to avoid publishing details on Iran's nuclear program that may cause confusion.

B) Iran urged the United Nations' nuclear watchdog to avoid publishing "unnecessary" details on Tehran's nuclear program.

C) "Iran has no credible civilian use for uranium metal," they said in a joint statement.

D) The goal of the deal is to prevent Iran from developing a nuclear bomb, something Iran insists it does not want to do.

E) On Thursday, the IAEA said Iran had informed it that it had begun installing equipment for the production of uranium metal.

F) On Saturday, Germany, France and Britain pressed Iran to back off its plan to develop uranium metal.

A. Which sentence should be fifth in the paragraph?

A

B

B

C

C

A

D D

E E

Solution

Option (b) is the right answer.

The correct order of sentence after rearrangement is BAFDCE.

B) Iran urged the United Nations' nuclear watchdog to avoid publishing "unnecessary" details on Tehran's nuclear program.

A) The report quoted a statement from Iran's nuclear department that asked the International Atomic Energy Agency to avoid publishing details on Iran's nuclear program that may cause confusion.

F) On Saturday, Germany, France and Britain pressed Iran to back off its plan to develop uranium metal.

D) The goal of the deal is to prevent Iran from developing a nuclear bomb, something Iran insists it does not want to do.

C) "Iran has no credible civilian use for uranium metal," they said in a joint statement.

E) On Thursday, the IAEA said Iran had informed it that it had begun installing equipment for the production of uranium metal.

B. Which sentence should be second in the paragraph?

A D

B B

C C

D F

E A

Solution

Option (e) is the right answer.

The correct order of sentence after rearrangement is BAFDCE.

B) Iran urged the United Nations' nuclear watchdog to avoid publishing "unnecessary" details on Tehran's nuclear program.

A) The report quoted a statement from Iran's nuclear department that asked the International Atomic Energy Agency to avoid publishing details on Iran's nuclear program that may cause confusion.

F) On Saturday, Germany, France and Britain pressed Iran to back off its plan to develop uranium metal.

D) The goal of the deal is to prevent Iran from developing a nuclear bomb, something Iran insists it does not want to do.

C) "Iran has no credible civilian use for uranium metal," they said in a joint statement.

E) On Thursday, the IAEA said Iran had informed it that it had begun installing equipment for the production of uranium metal.

C. Which sentence should be third in the paragraph?

A B

B D

C C

D A

E F

Solution

Option (e) is the right answer.

The correct order of sentence after rearrangement is BAFDCE.

B) Iran urged the United Nations' nuclear watchdog to avoid publishing "unnecessary" details on Tehran's nuclear program.

A) The report quoted a statement from Iran's nuclear department that asked the International Atomic Energy Agency to avoid publishing details on Iran's nuclear program that may cause confusion.

F) On Saturday, Germany, France and Britain pressed Iran to back off its plan to develop uranium metal.

D) The goal of the deal is to prevent Iran from developing a nuclear bomb, something Iran insists it does not want to do.

C) "Iran has no credible civilian use for uranium metal," they said in a joint statement.

E) On Thursday, the IAEA said Iran had informed it that it had begun installing equipment for the production of uranium metal.

D. Which of the following is the last sentence?

☐ A

☐ B

☐ C

☒ D

E

F

Solution

Option (d) is the right answer.

The correct order of sentence after rearrangement is BAFDCE.

B) Iran urged the United Nations' nuclear watchdog to avoid publishing "unnecessary" details on Tehran's nuclear program.

A) The report quoted a statement from Iran's nuclear department that asked the International Atomic Energy Agency to avoid publishing details on Iran's nuclear program that may cause confusion.

F) On Saturday, Germany, France and Britain pressed Iran to back off its plan to develop uranium metal.

D) The goal of the deal is to prevent Iran from developing a nuclear bomb, something Iran insists it does not want to do.

C) "Iran has no credible civilian use for uranium metal," they said in a joint statement.

E) On Thursday, the IAEA said Iran had informed it that it had begun installing equipment for the production of uranium metal.

E. Which sentence should be fourth in the paragraph?

A

D

B B

C C

D F

E A

Solution

Option (a) is the right answer.

The correct order of sentence after rearrangement is BAFDCE.

B) Iran urged the United Nations' nuclear watchdog to avoid publishing "unnecessary" details on Tehran's nuclear program.

A) The report quoted a statement from Iran's nuclear department that asked the International Atomic Energy Agency to avoid publishing details on Iran's nuclear program that may cause confusion.

F) On Saturday, Germany, France and Britain pressed Iran to back off its plan to develop uranium metal.

D) The goal of the deal is to prevent Iran from developing a nuclear bomb, something Iran insists it does not want to do.

C) "Iran has no credible civilian use for uranium metal," they said in a joint statement.

E) On Thursday, the IAEA said Iran had informed it that it had begun installing equipment for the production of uranium metal.

Direction: In each of these questions, a sentence with four words printed in *italics* type is given.

These are numbered as A, B, C and D.

One of these four words may be either wrongly spelled or inappropriate in context of the sentence.

Find out the word which is wrongly spelled or inappropriate if any.

The number of that word is your answer.

If all the words are correctly spelled and also appropriate in the context of the sentence, mark (E) "All are correct" as your answer.

12. One might well conclude the *dismissal* A) was a *faint* B), a hollow *gesture* C) to allay perceived public *outrage* D).

A Dismissal

B Faint

C Gesture

D Outrage

E All are correct

Solution

Replace 'faint' with 'feint'.

Feint means an action in which someone pretends to move, or makes a move, in a particular direction in order to deceive an opponent, especially in sports.

Faint means the act of suddenly becoming unconscious.

Hence, option B is correct.

Direction: In each of these questions, a sentence with four words printed in *italics* type is given.

These are numbered as A, B, C and D.

One of these four words may be either wrongly spelled or inappropriate in context of the sentence.

Find out the word which is wrongly spelled or inappropriate if any.

The number of that word is your answer.

If all the words are correctly spelled and also appropriate in the context of the sentence, mark (E) "All are correct" as your answer.

13. *Progress* A) is often *alarmingly* B) rapid as their *enthusiasm* C) and natural abilities *adept* D) to the new environment.

A Progress

B Alarmingly

C Enthusiasm

D Adept

E All are correct

Solution

Replace ‘adept’ with ‘adapt’.

Adapt means to make suitable to requirements or conditions.

Adept means very skilled; proficient or expert.

Hence, option D is correct.

Direction: In each of these questions, a sentence with four words printed in *italics* type is given.

These are numbered as A, B, C and D.

One of these four words may be either wrongly spelled or inappropriate in context of the sentence.

Find out the word which is wrongly spelled or inappropriate if any.

The number of that word is your answer.

If all the words are correctly spelled and also appropriate in the context of the sentence, mark (E) "All are correct" as your answer.

14. Ministers as a *professional* A) group tend to be *adverse* B) to gathering C) because they are more people focused than organisation *orientated* D).

A Professional

B Adverse

C Gathering

D Orientated

E All are correct

Solution

Replace 'adverse' with 'averse'.

Averse means having a strong feeling of opposition, antipathy etc.

Adverse decisions, conditions, or effects are unfavourable to you.

Hence, option B is correct.

Direction: In each of these questions, a sentence with four words printed in *italics* type is given.

These are numbered as A, B, C and D.

One of these four words may be either wrongly spelled or inappropriate in context of the sentence.

Find out the word which is wrongly spelled or inappropriate if any.

The number of that word is your answer.

If all the words are correctly spelled and also appropriate in the context of the sentence, mark (E) "All are correct" as your answer.

15. It is written in a *reassuring* A) way that should positively *assist* B) nurses, and health visitors and *ally* C) understandable *anxieties* D).

A Reassuring

B Assist

C Ally

D Anxieties

E All are correct

Solution

Replace ‘ally’ with ‘allay’.

Ally means to enter into an alliance.

If you allay a strong emotion felt by someone, such as fear or worry, you cause them to feel it less or to feel calm again.

Hence, option C is correct.

Direction: In each of these questions, a sentence with four words printed in *italics* type is given.

These are numbered as A, B, C and D.

One of these four words may be either wrongly spelled or inappropriate in context of the sentence.

Find out the word which is wrongly spelled or inappropriate if any.

The number of that word is your answer.

If all the words are correctly spelled and also appropriate in the context of the sentence, mark (E) "All are correct" as your answer.

16. *Demonstrations* A) throughout the city have focused on *immigration* B) and an calling for an *amnesty* C) for illegal *aliens* D).

A Demonstrations

B Immigration

C Amnesty

D Aliens

E All are correct

Solution

All the mentioned words are correct.

Hence, option E is correct.

17. Read the instruction carefully and answer the questions based on it.

Find out the wrong number in the following number series.

A. 10, 8, 14, 50, 158, 788

A 8

B 14

C 50

D 158

E 788

Solution

$$10 \times 1 - 2 = 8$$

$$8 \times 2 - 2 = 14$$

$$14 \times 3 - 2 = 40 \text{ not } 50$$

$$40 \times 4 - 2 = 158$$

$$158 \times 5 - 2 = 788$$

B. 20, 30, 80, 112.5, 281.25, 421.875

A 30

B 80

C 112.5

D 281.25

E 421.875

Solution

$$20 \times 1.5 = 30$$

$$30 \times 2.5 = 75 \text{ not } 80$$

$$75 \times 1.5 = 112.5$$

$$112.5 \times 2.5 = 281.25$$

$$281.25 \times 1.5 = 421.875$$

c. 5, 14, 121, 188, 917, 1038

A 14

B 121

C 188

D 917

E 1038

Solution

$$5 + 3^2 = 14$$

$$14 + 5^3 = 139 \text{ not } 121$$

$$139 + 7^2 = 188$$

$$188 + 9^3 = 917$$

$$917 + 11^2 = 1038$$

D. 17, 46, 92, 157, 243, 356

A 46

B 356

C 243

D 157

E 92

Solution

$$17 + 3^2 + 20 = 46$$

$$46 + 4^2 + 30 = 92$$

$$92 + 5^2 + 40 = 157$$

$$157 + 6^2 + 50 = 243$$

$$243 + 7^2 + 60 = 352 \text{ not } 356$$

E. 1, 8, 36, 150, 596, 2388

A 8

B 36

C 150

D 596

E 2388

Solution

$$1 \times 4 + 4 = 8$$

$$8 \times 4 + 4 = 36$$

$$36 \times 4 + 4 = 148 \text{ not } 150$$

$$148 \times 4 + 4 = 596$$

$$596 \times 4 + 4 = 2388$$

18. Read the instruction carefully and answer the questions based on it.

What value should come in the place of (?) in the following questions ?

A. $(9040 \div 113) \times 12.5 = ?$

A 800

B 900

C 1000

D 1100

E 1400

Solution

$$(9040 \div 113) \times 12.5 = ?$$

$$80 \times 12.5 = ?$$

$$? = 1000$$

B. $13^2 + 14^2 - 50\% \text{ of } 130 + \sqrt{576} = ?^2$

A 15

B 16

C 17

D 18

E 19

Solution

$$13^2 + 14^2 - 50\% \text{ of } 130 + \sqrt{576} = ?^2$$

$$169 + 196 - 65 + 24 = ?^2$$

$$? = 18$$

c. $((11 \div 4) + (5 \div 3) + (7 \div 3)) \times 48 = ?$

A 324

B 344

C 354

D 384

E 372

Solution

$$\begin{aligned} & ((11 \div 4) + (5 \div 3) + (7 \div 3)) \times 48 = ? \\ & \frac{(33+20+28)}{12 \times 48} = ? \\ & ? = 324 \end{aligned}$$

D. $\frac{(9 \times 9 + 64 - 8 \times 9)}{(729 + 8^3)} = ?$

A $\frac{1}{12}$

B $\frac{1}{10}$

C $\frac{1}{19}$

D $\frac{1}{15}$

E $\frac{1}{17}$

Solution

$$\frac{(9 \times 9 + 64 - 8 \times 9)}{(729 + 8^3)} = ?$$
$$\Rightarrow \frac{(9^2 + 8^2 - 8 \times 9)}{(9^3 + 8^3)}$$
$$\frac{(a^2 + b^2 - ab)}{(a^3 + b^3)} = \frac{1}{(a + b)}$$
$$\Rightarrow \frac{1}{(9 + 8)}$$
$$\Rightarrow \frac{1}{17}$$

E. $(\sqrt{1296} \times 7 + \sqrt{1089}) \div 19 = ? \div 12$

A 180

B 160

C 170

D 190

E 200

Solution

$$(\sqrt{1296} \times 7 + \sqrt{1089}) \div 19 = ? \div 12$$
$$\frac{(252 + 33)}{19} = \frac{?}{12}$$
$$? = 180$$

F. $20\% \text{ of } 5000 - 3 \times 5^2 = ?^2 - 36$

A 21

B 11

C 31

D 41

E 51

Solution

$$20\% \text{ of } 5000 - 3 \times 5^2 = ?^2 - 36$$

$$\Rightarrow 1000 - 75 = ?^2 - 36$$

$$\Rightarrow 925 + 36 = ?^2$$

$$\Rightarrow ? = 31$$

G. $524 + 361 - 231 + 421 = ?$

A 1025

B 1035

C 1045

D 1075

E 1085

Solution

$$524 + 361 - 231 + 421 = ?$$

$$? = 1075$$

19.

Following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give an answer as,

- a) If $x > y$
- b) If $x < y$
- c) If $x \geq y$
- d) If $x \leq y$
- e) If $x = y$ or no relationship can be established

A. $2x^2 - 42x + 208 = 0$
 $y^2 - 26y + 168 = 0$

A A

B B

C C

D D

E E

Solution

$$2x^2 - 42x + 208 = 0$$

$$2x^2 - 26x - 16x + 208 = 0$$

$$2x(x - 13) - 16(x - 13) = 0$$

$$x = 8, 13$$

$$y^2 - 26y + 168 = 0$$

$$y^2 - 12y - 14y + 168 = 0$$

$$y(y - 12) - 14(y - 12) = 0$$

$$y = 12, 14$$

Relationship between x and y cannot be established.

B. $x^2 + 15x + 14 = 0$

$$y^2 - 13y - 14 = 0$$

A A

B B

C C

D D

E E

Solution

$$x^2 + 15x + 14 = 0$$

$$x^2 + 14x + x + 14 = 0$$

$$x(x + 14) + 1(x + 14) = 0$$

$$x = -1, -14$$

$$y^2 - 13y - 14 = 0$$

$$y^2 - 14y + y - 14 = 0$$

$$y(y - 14) + 1(y - 14) = 0$$

$$y = 14, -1$$

$$x \leq y$$

c. $x^2 + 17x + 52 = 0$

$$2y^2 + 10y + 8 = 0$$

A A

B B

C C

D D

E E

Solution

$$x^2 + 17x + 52 = 0$$

$$x^2 + 13x + 4x + 52 = 0$$

$$x(x + 13) + 4(x + 13) = 0$$

$$x = -4, -13$$

$$2y^2 + 10y + 8 = 0$$

$$2y^2 + 8y + 2y + 8 = 0$$

$$2y(y + 4) + 2(y + 4) = 0$$

$$y = -4, -1$$

$$x \leq y$$

D. $x^2 - x - 42 = 0$

$$y^2 - y - 72 = 0$$

A A

B B

C C

D D

E E

Solution

$$x^2 - x - 42 = 0$$

$$x^2 - 7x + 6x - 42 = 0$$

$$x(x - 7) + 6(x - 7) = 0$$

$$x = 7, -6$$

$$y^2 - y - 72 = 0$$

$$y^2 - 9y + 8y - 72 = 0$$

$$y(y - 9) + 8(y - 9) = 0$$

$$y = 9, -8$$

Relationship between x and y cannot be established.

E. $x^2 - 23x + 102 = 0$

$$y^2 - 35y + 306 = 0$$

A A

B B

C C

D D

E E

Solution

$$x^2 - 23x + 102 = 0$$

$$x^2 - 17x - 6x + 102 = 0$$

$$x(x - 17) - 6(x - 17) = 0$$

$$x = 17, 6$$

$$y^2 - 35y + 306 = 0$$

$$y^2 - 17y - 18y + 306 = 0$$

$$y(y - 17) - 18(y - 18) = 0$$

$$y = 17, 18$$

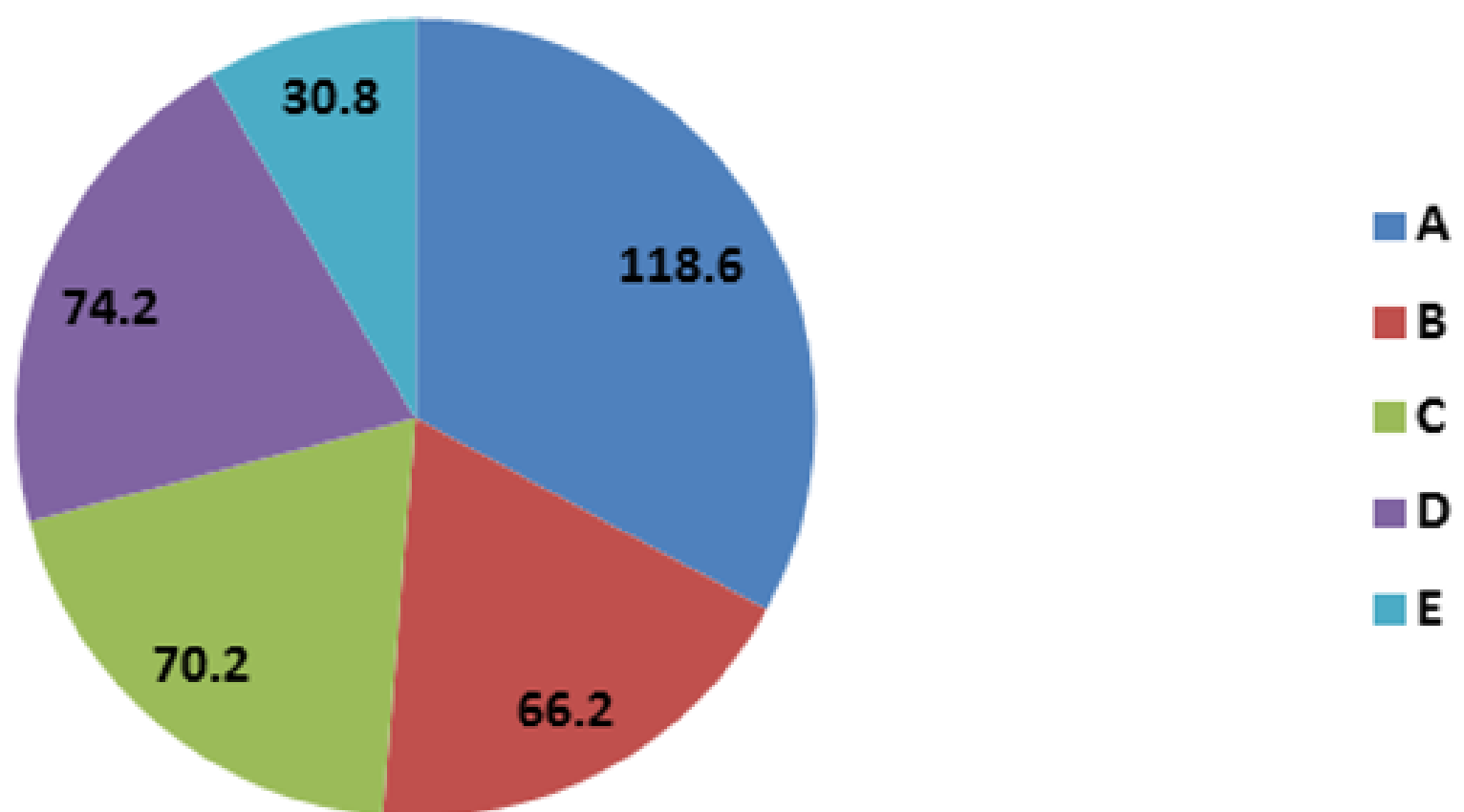
$$x \leq y$$

20.

Study the following information carefully and answer the questions given below.

The given pie chart shows the angles of the number of students in five different schools in 2019.

Total number of students



A. The total number of students in D is what percent of the number of students in A?

A 62.5%

B 52.5%

C 65.5%

D

75.5%

E

72.5%



ENTRI

Solution

$$\text{Required percentage} = \frac{74.2}{118.6} \times 100 = 62.5\%$$

- B. Total number of students in all the schools together is 10800. If the ratio of the number of boys to girls in C is 5:4, then what is the difference between the number of boys and girls in C?**

A

214

B

224

C

234

D

244

E

254

Solution

$$\text{Number of students in C} = 10800 \times \frac{70.2}{360} = 2106$$

$$\text{Required difference} = \frac{1}{9} \times 2106 = 234$$

C. If the total number of students in A and D is 9640, then find the total number of students in B, C and E together.

A 6260

B 7260

C 8360

D 7140

E 8040

Solution

$$\begin{aligned} \text{Number of students in B, C and E} &= \frac{(66.2+70.2+30.8)}{(118.6+74.2)} \times 9640 \\ &= 8360 \end{aligned}$$

D. Total number of students in all the schools together is 10800. Then what is the difference between the sum of the number of students in A, C and D and the sum of the number of the students in B and E?

A 4950

B 4970

C 4980

D 5080

E 5280

Solution

$$\text{Number of students in A} = \frac{118.6}{360} \times 10800 = 3558$$

$$\text{Number of students in B} = \frac{66.2}{360} \times 10800 = 1986$$

$$\text{Number of students in C} = \frac{70.2}{360} \times 10800 = 2106$$

$$\text{Number of students in D} = \frac{74.2}{360} \times 10800 = 2226$$

$$\text{Number of students in E} = \frac{30.8}{360} \times 10800 = 924$$

$$\text{Required difference} = (3558 + 2106 + 2226) - (1986 + 924) = 4980$$

E. The number of students in B and E together is approximately what percent of the total number of students in all the schools together?

A 20%

B 22%

C 17%

D 24%

E 27%

Solution

$$\text{Required percentage} = \frac{(66.2+30.8)}{360} \times 100 = 27\%$$

21. If the mobile is sold after allowing two successive discounts 10% and $x\%$ and the profit percent earned after selling the mobile is $x\%$. If the ratio of the marked and cost price is 5:3 and the difference between the cost and marked price of mobile is Rs.8000, then find the value of x .

A 10

B 12

C 15

D 18

E 20

Solution

$$\text{CP of mobile} = \frac{3}{2} \times 8000 = 12000$$

$$\text{MP of mobile} = \frac{5}{2} \times 8000 = 20000$$

$$20000 \times \frac{(100-x)}{100} \times \frac{90}{100} = 12000 \times \frac{(100+x)}{100}$$

$$300 - 3x = 200 + 2x$$

$$5x = 100$$

$$x = 20$$

22. An amount is deposited in Canara bank by a person at a rate of $r\%$ p.a compound interest, compounded annually amounts to Rs. 6292 in 2 years and Rs. 6921.2 in 3 years. Find the sum.

A Rs. 5000

B Rs. 5500

C Rs. 5200

D Rs. 5400

E Rs. 6000

Solution

Let P be the required amount.

$$P(1 + r\%)^2 = 6292 \quad \text{--- (I)}$$

$$P(1 + r\%)^3 = 6921.2 \quad \text{--- (II)}$$

$$\frac{(II)}{(I)}$$

$$\Rightarrow \left(1 + \frac{r}{100}\right) = \frac{6921.2}{6292}$$

$$(I) \Rightarrow P \times \frac{6921.2}{6292} \times \frac{6921.2}{6292} = 6292$$

$$\Rightarrow P = \text{Rs. } 5200$$

23. In an examination, the average mark scored by the students was 51. If 15% of the students scored 20 marks and 25% of the students scored 60 marks. Find the average marks of the rest of the students.

A 50

B 55

C 45

D 40

E 60

Solution

Let 100 be the total number of students.

Required average = n

$$(15 \times 20) + (25 \times 60) + (60 \times n) = 100 \times 51$$

$$\Rightarrow 60n = 3300$$

$$\Rightarrow n = 55$$

24. Total time taken by a boat to go 48 km in downstream and 54 km in upstream is 13 hours. Speed of the current is 6 kmph less than the speed of boat in still water. What is the time taken by the boat to cover 90 km in still water? (in hours)

A 18 Hr

B 16 Hr

C 15 Hr

D 12 Hr

E 10 Hr

Solution

Let the speed of current be x kmph.

Then the speed of boat in still water = $x + 6$ kmph

ATQ,

$$\frac{48}{(x+6+x)} + \frac{54}{6} = 13$$

$$x = 3$$

$$\text{Required time taken} = \frac{90}{(6+3)} = 10 \text{ hours}$$

25. P and Q can complete a work in 10 days and 15 days respectively. Both started working together, but at the end of each day, 10% of their work done on that day is neglected. How much time will they take to complete the work?

A $\frac{31}{5}$ days

B $\frac{34}{5}$ days

C $\frac{32}{5}$ days

D $\frac{23}{5}$ days

E $\frac{33}{5}$ days

Solution

$$\text{Total work} = 30 \text{ units } P = \frac{30}{10} = 3 \text{ units/day}$$

$$Q = \frac{30}{15} = 2 \text{ units/day}$$

$$\text{Work done by P and Q in 1 day} = 0.90 \times (3 + 2) = 4.5 \text{ units}$$

$$\text{Work done in 6 days} = 6 \times 4.5 = 27 \text{ units}$$

$$\text{Time taken to complete remaining 3 units} = \frac{3}{5} \text{ days}$$

$$\text{Total time taken} = 6 + \frac{3}{5} = \frac{33}{5} \text{ days}$$

26. Two alloys contain 45% and 30% of bronze in it respectively. If 36 gram of first type alloy is mixed with 20 gram of second type alloy then find the percentage of bronze in the resulting mixture.

A 30.64%

B 38.64%

C 35.64%

D 29.64%

E 39.64%

Solution

Quantity of bronze in first type of alloy = $\frac{45}{100} \times 36 = 16.2 \text{ gram}$

Quantity of bronze in second type of alloy = $\frac{30}{100} \times 20 = 6 \text{ gram}$

Required percentage = $\frac{(16.2+6)}{(36+20)} \times 100 = 39.64\%$

27. A boat covers the certain distance in upstream and downstream in 57 hours. If the difference between the speed of boat in still water and current is 8 kmph, then what is the speed of the boat in still water?

A 5 m/s

B 7.5 m/s

C 10 m/s

D Can't be determined

E None of these

Solution

Speed of the boat = x

Speed of the stream = y

Distance = D

Speed of upstream = 8 kmph

$$\frac{D}{(x+y)} + \frac{D}{8} = 57$$

We cannot find the answer.

28. A boat covers the certain distance in upstream and downstream in 57 hours. If the difference between the speed of boat in still water and current is 8 kmph, then what is the speed of the boat in still water?

A 5 m/s

B 7.5 m/s

C 10 m/s

D Can't be determined

E None of these

Solution

Speed of the boat = x

Speed of the stream = y

Distance = D

Speed of upstream = 8 kmph

$$\frac{D}{(x+y)} + \frac{D}{8} = 57$$

We cannot find the answer.

29. The cost price of the mobile is $Rs. 1250x$. If the marked price of the mobile is 40% above its cost price and the shopkeeper offers the discount of $x\%$, while he gets the profit of 12%. Find the marked price of the mobile.

A Rs. 35000

B Rs. 40000

C Rs. 38000

D Rs. 42000

E Rs. 45000

Solution

$$CP = 1250x$$

$$MP = 1250x \times \frac{140}{100} = 1750x$$

$$1750x \times \frac{(100-x)}{100} = 1250x \times \frac{112}{100}$$

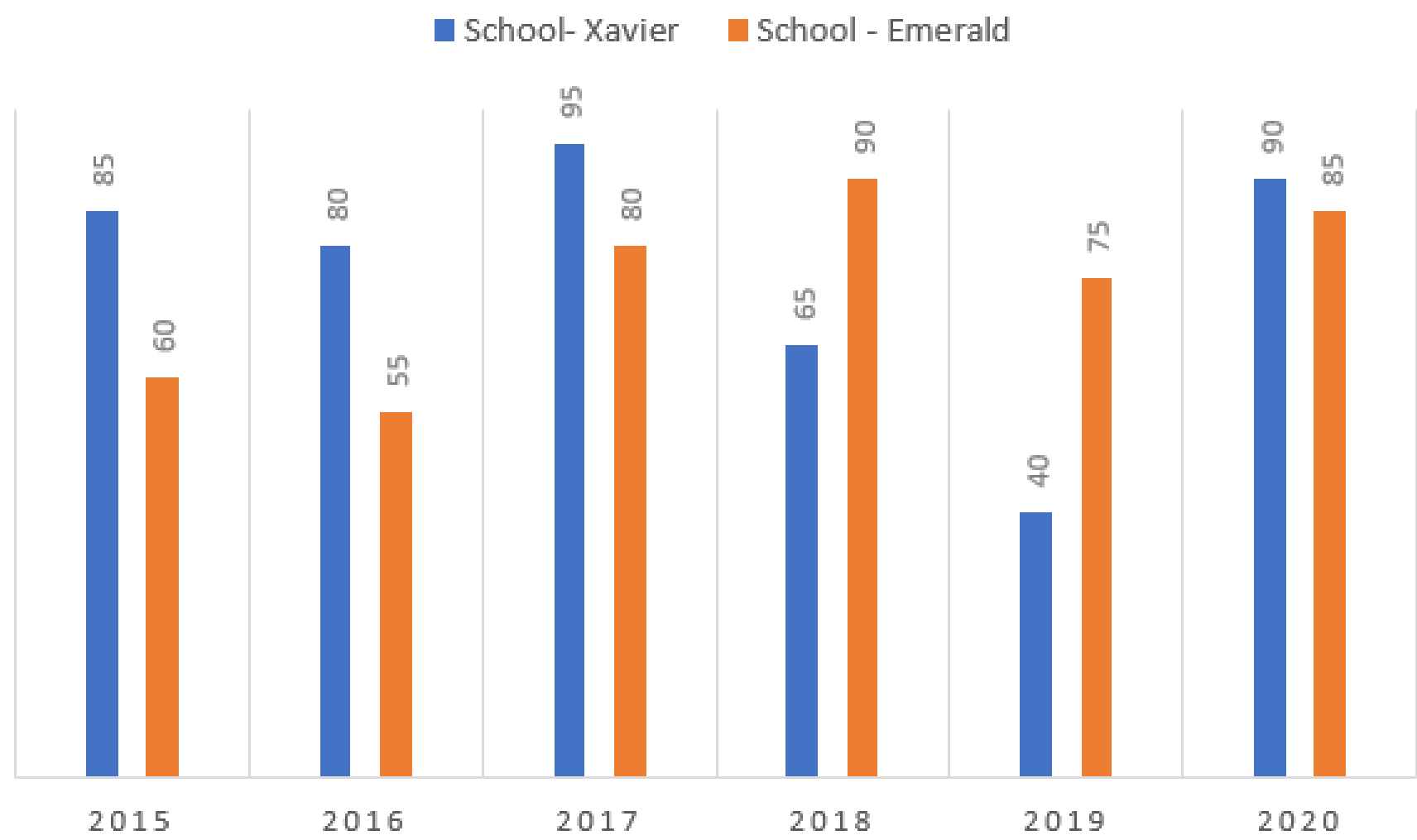
$$100 - x = 80$$

$$x = 20$$

$$MP = 20 \times 1750 = Rs. 35000$$

30. Read the instruction carefully and answer the questions based on it.

Below given graph shows the number of students qualified from two schools.



A. If 40% of the total students who qualified in the exam from both the schools together over all the years are females, then what was the total number of males who qualified in the exam over all the years from both the schools together?

A 420

B 400

C 500

D 520

E 540

Solution

Total number of males who qualified over the years from both the schools together = 60% of $(455 + 445)$
 $= \frac{900 \times 60}{100}$
 $= 540$

B. What was the difference between the total number of students who qualified in the exam in the year 2015 from both the schools together and the total number of students from school- Emerald who qualified in exam over all the years together?

A 200

B 250

C 300

D 330

E 350

Solution

Total number of students from school- Emerald who qualified over the years

$$= (60 + 55 + 80 + 90 + 75 + 85) = 445$$

$$\text{Required difference} = 445 - (85 + 60) = 445 - 145 = 300$$

- C. What was the approximate per cent increase in the number of students who qualified in the exam from school – Emerald in the year 2017 as compared to the previous year?**

A 42%

B 50%

C 45%

D 35%

E 40%

Solution

As per data given in the question,

$$\begin{aligned}\text{Percentage increase} &= \left[\frac{(80-55)}{55} \right] \times 100\% \\ &= \frac{25}{55} \times 100\% = 45.45\% \approx 45\%\end{aligned}$$

D. What was the respective ratio between the number of students who qualified in the exam from school- Xavier in the year 2015 and the number of students who qualified in the exam from school- Emerald in the year 2018 ?

A 12:13

B 13:14

C 14:15

D 15:16

E 17:18

Solution

As per data given in the graph,

$$\text{Required ratio} = 85 : 90 = 17 : 18$$

31.

Study the following information carefully and answer the below questions

Eight persons- L, M, N, O, P, Q, R, and S are sitting on the circular table facing the center but not necessarily in the same order. Q sits second to the left of S. Two persons are sitting between Q and O. Neither O nor Q is an immediate neighbour of L. N sits third to the right of R and does not sit opposite to L. R and S are not immediate neighbours. One person sits between R and P. M is either adjacent to Q or R, not both.

A. Who among the following person sits opposite to S?

A M

B The one who sits second to the left of O

C The one who sits immediate right of L

D Q

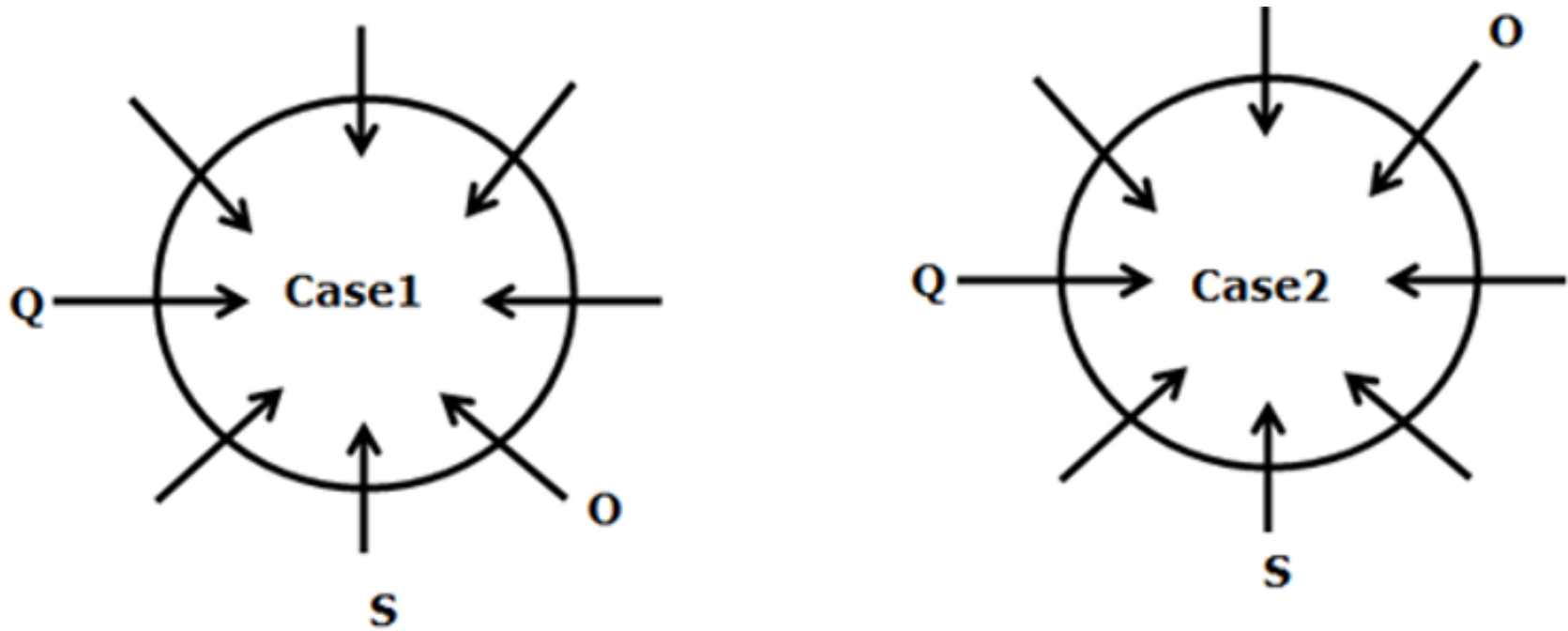
E N

Solution

We have,

- Q sits second to the left of S.
- Two persons are sitting between Q and O.

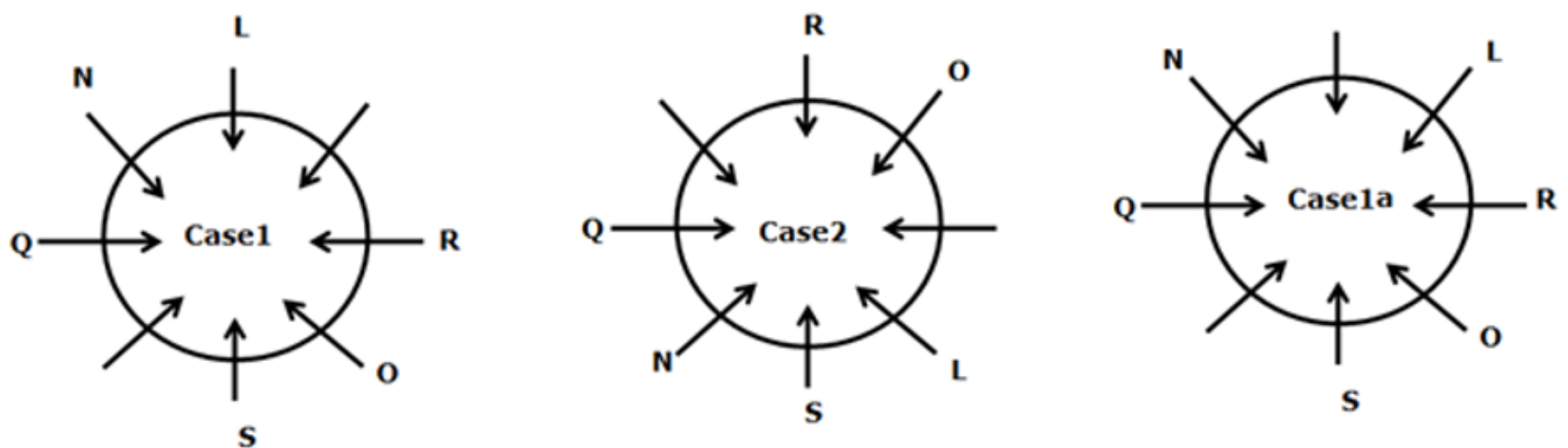
From the above condition, there are two possibilities.



Again we have,

- Neither O nor Q is an immediate neighbour of L.
- N sits third to the right of R and does not sit opposite to L.
- R and S are not immediate neighbours.

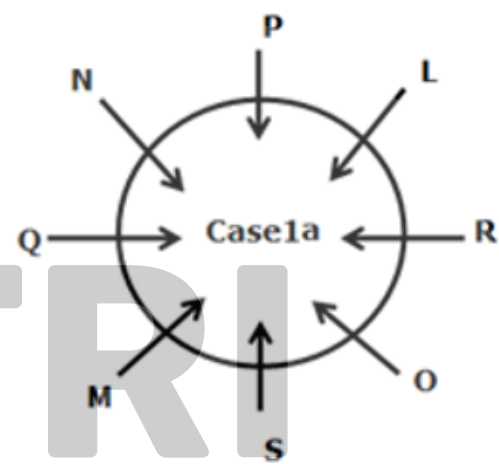
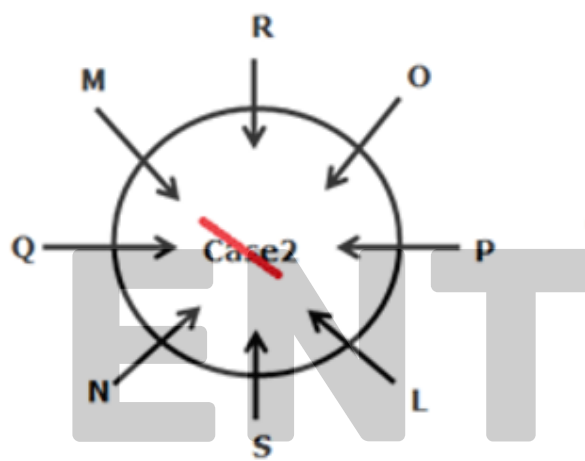
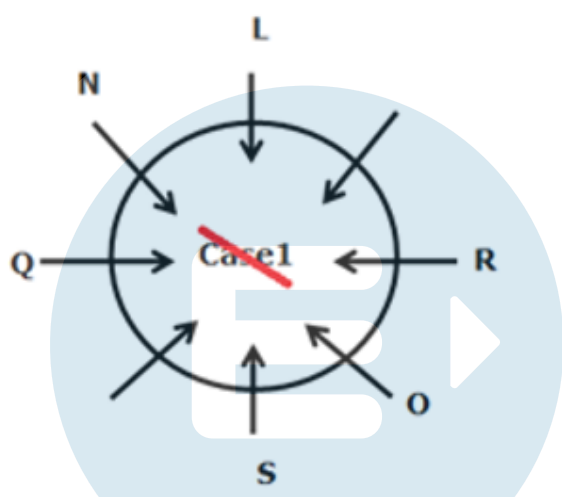
From the above condition, there are three possibilities.



Again we have,

- One person sits between R and P.
- M is either adjacent to Q or R, not both.

From the above condition, case1 and case2 get eliminated. case1a shows the final arrangement.



B. How many persons are sitting between M and O when counted from the left of O?

A No one

B Two

C Three

D Four

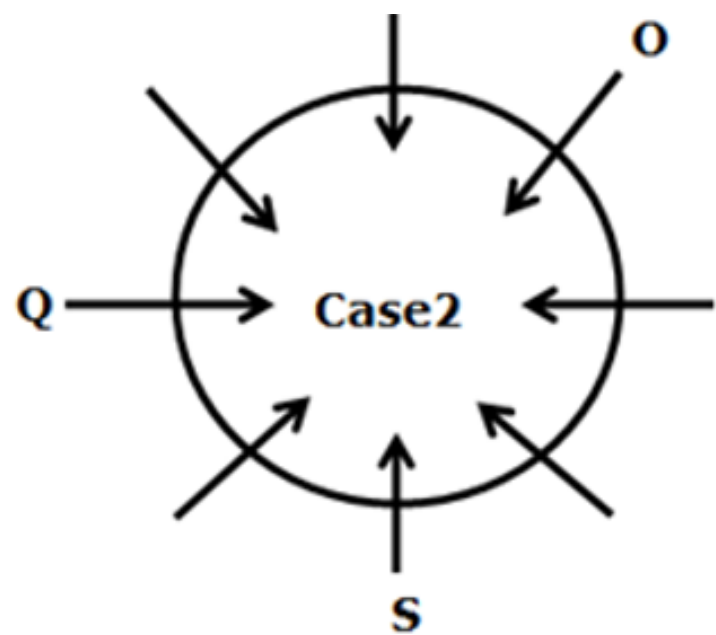
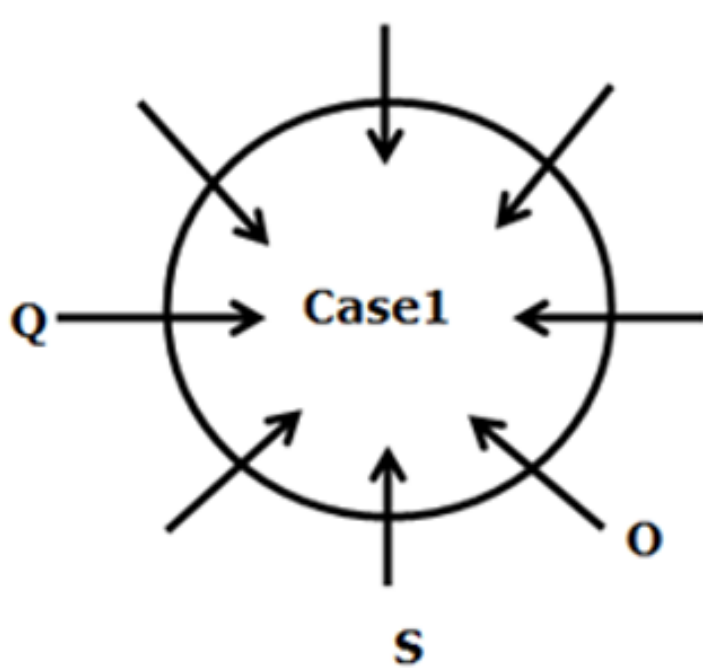
E One

Solution

We have,

- Q sits second to the left of S.
- Two persons are sitting between Q and O.

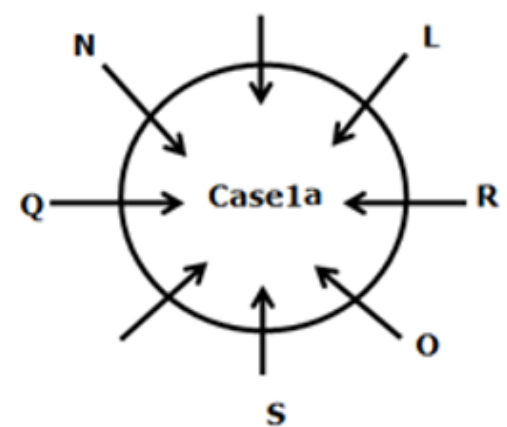
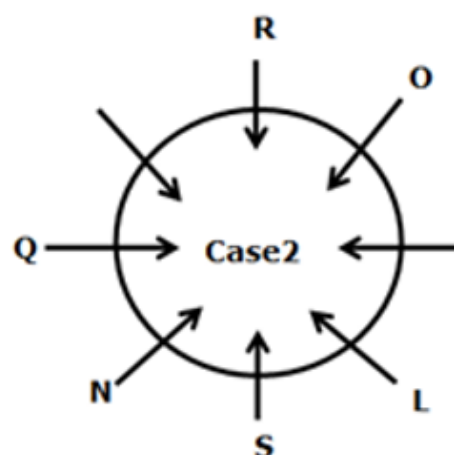
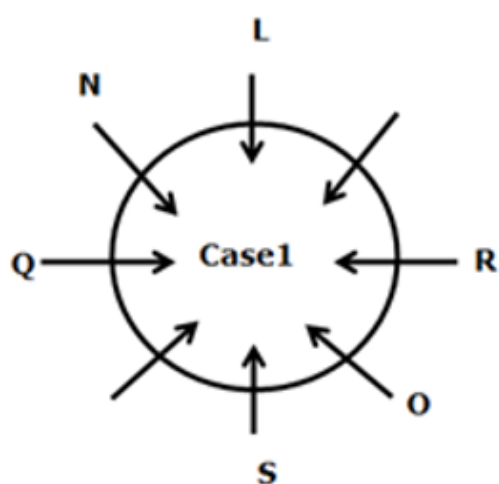
From the above condition, there are two possibilities.



Again we have,

- Neither O nor Q is an immediate neighbour of L.
- N sits third to the right of R and does not sit opposite to L.
- R and S are not immediate neighbours.

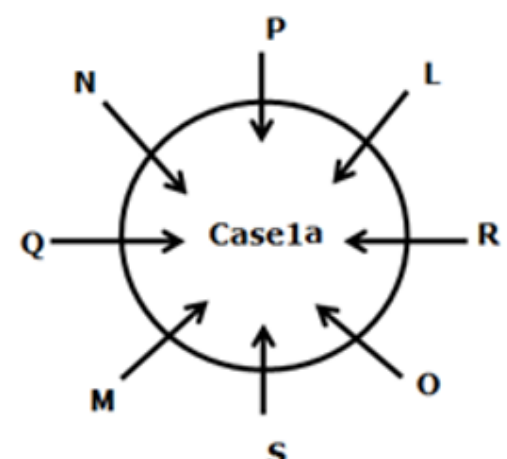
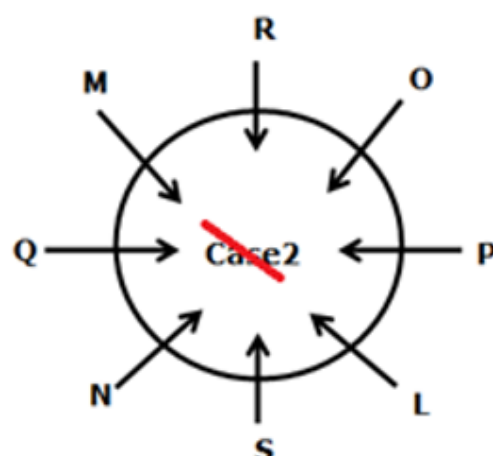
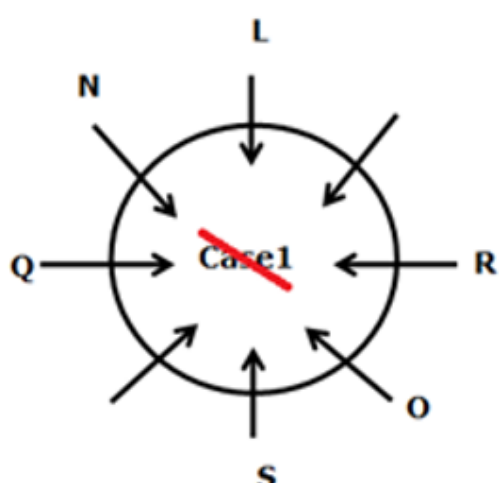
From the above condition, there are three possibilities.



Again we have,

- One person sits between R and P.
- M is either adjacent to Q or R, not both.

From the above condition, case1 and case2 get eliminated. case1a shows the final arrangement.



C. What is the position of Q with respect to L?

A Second to the right

B Immediate right

C Immediate left

D Second to the left

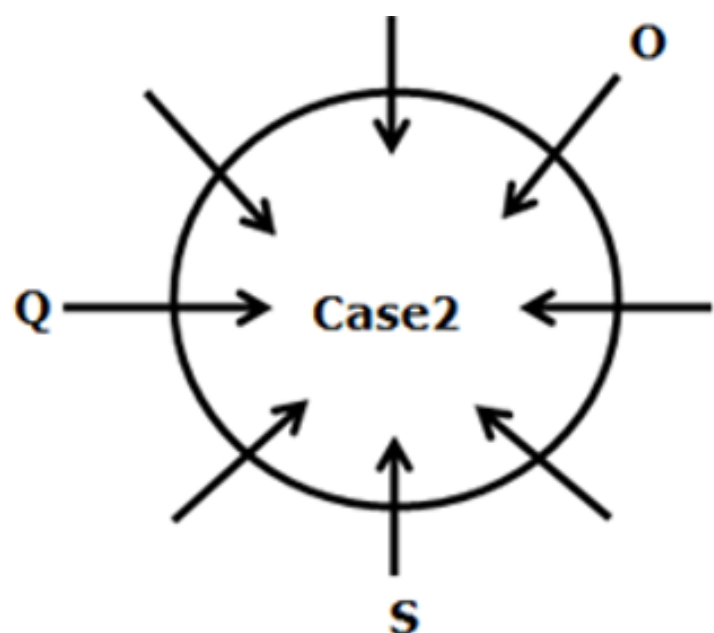
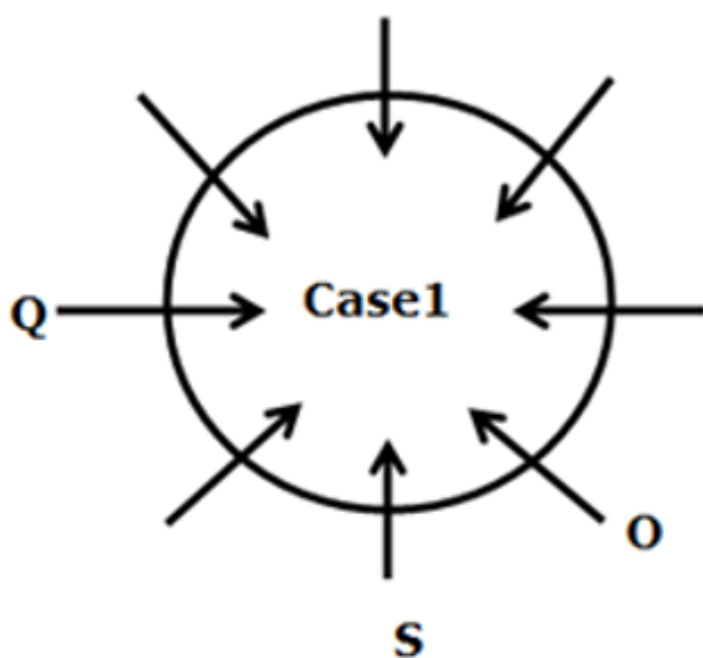
E Third to the right

Solution

We have,

- Q sits second to the left of S.
- Two persons are sitting between Q and O.

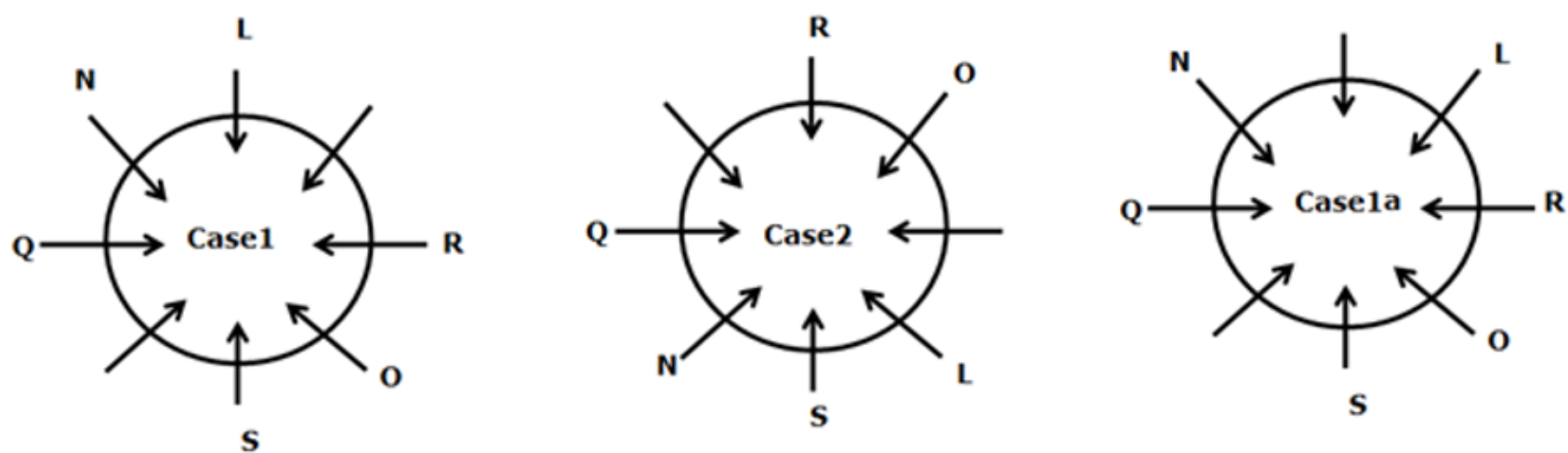
From the above condition, there are two possibilities.



Again we have,

- Neither O nor Q is an immediate neighbour of L.
- N sits third to the right of R and does not sit opposite to L.
- R and S are not immediate neighbours.

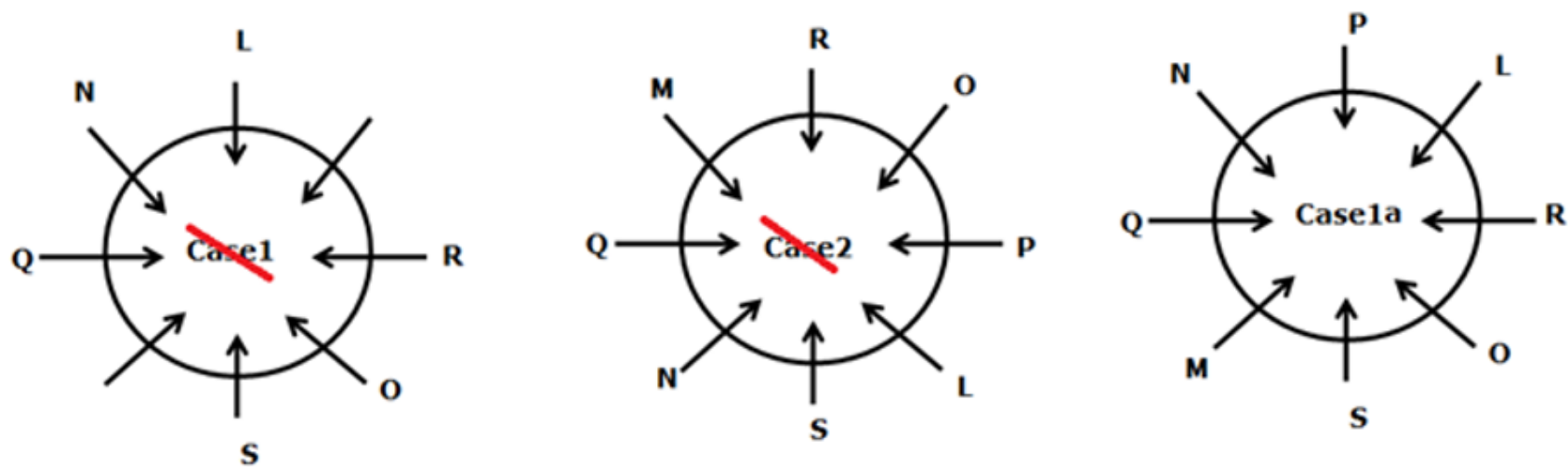
From the above condition, there are three possibilities.



Again we have,

- One person sits between R and P.
- M is either adjacent to Q or R, not both.

From the above condition, case1 and case2 get eliminated. case1a shows the final arrangement.



D. If N is related to M and S is related to R in a certain way. Then, who among the following is related to P?

- A The one who sits immediate right of M
- B S

C L

D The one who sits opposite to Q

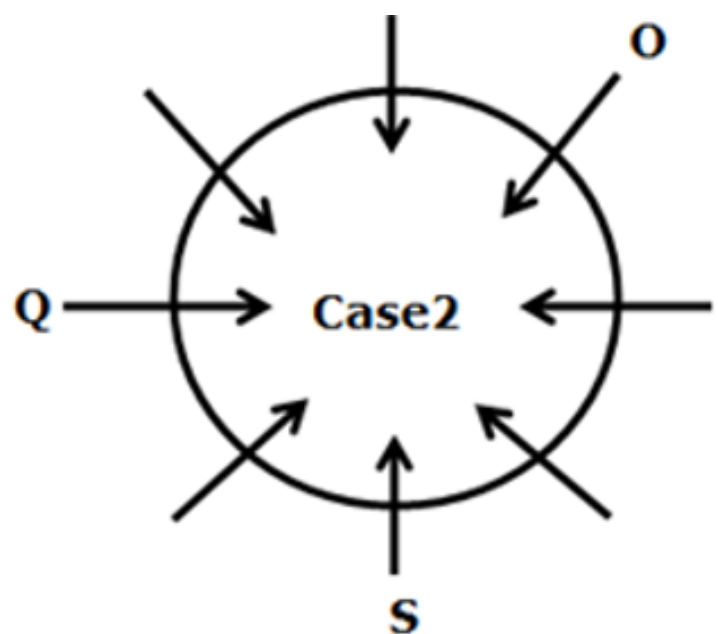
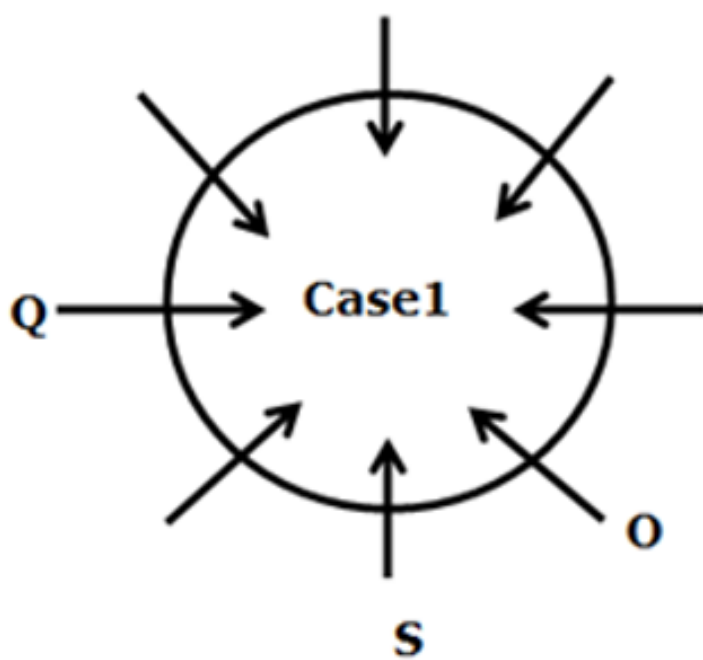
E Q

Solution

We have,

- Q sits second to the left of S.
- Two persons are sitting between Q and O.

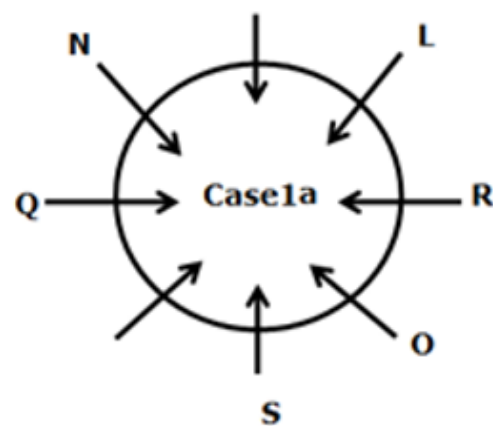
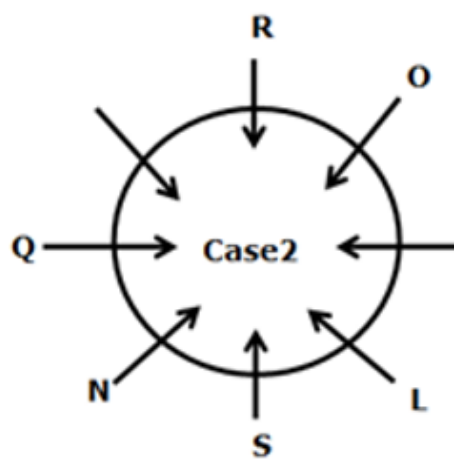
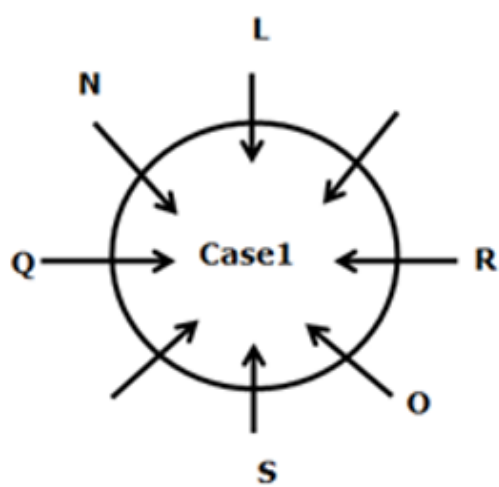
From the above condition, there are two possibilities.



Again we have,

- Neither O nor Q is an immediate neighbour of L.
- N sits third to the right of R and does not sit opposite to L.
- R and S are not immediate neighboururs.

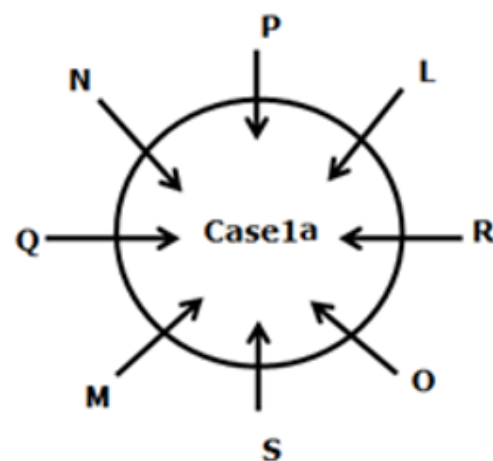
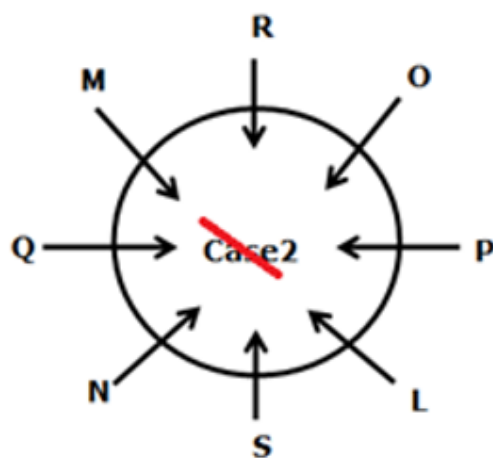
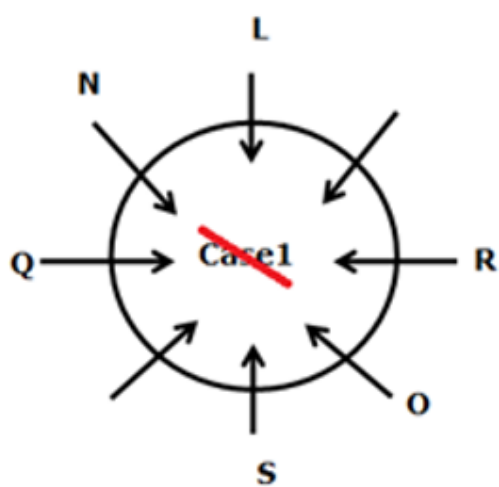
From the above condition, there are three possibilities.



Again we have,

- One person sits between R and P.
- M is either adjacent to Q or R, not both.

From the above condition, case1 and case2 get eliminated. case1a shows the final arrangement.



E. Who among the following sits third to the right of M?

A The one who sits second to the right of N

B The one who sits immediate left of L

C S

D Q

E

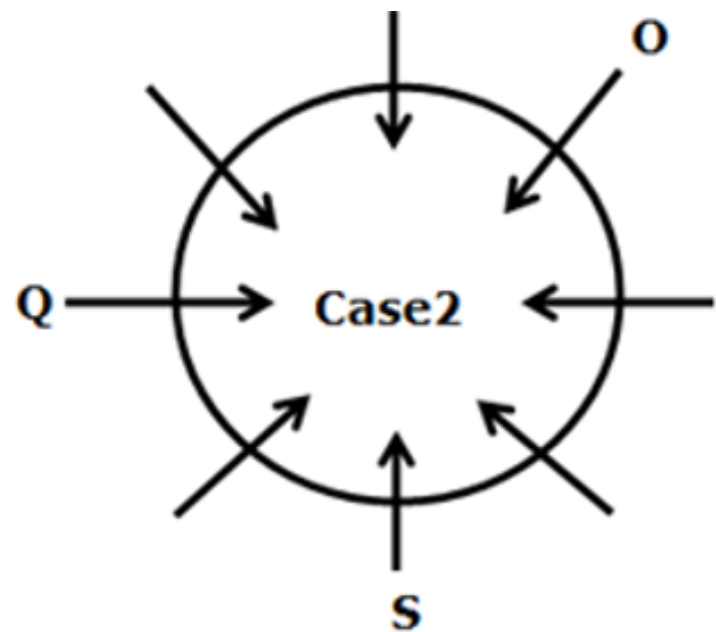
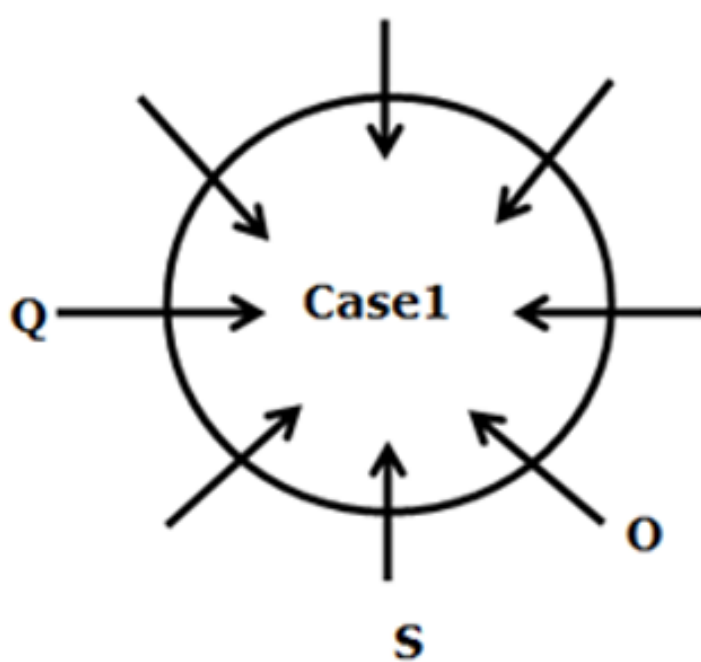
None of these

Solution

We have,

- Q sits second to the left of S.
- Two persons are sitting between Q and O.

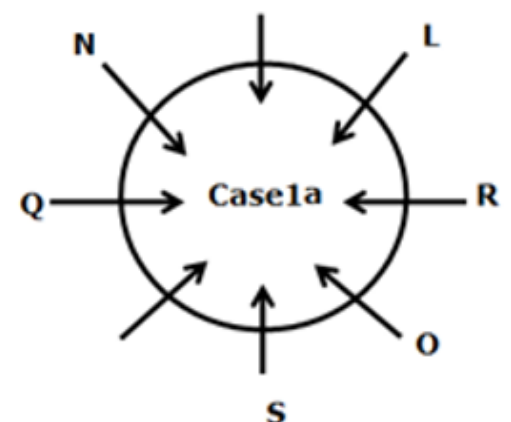
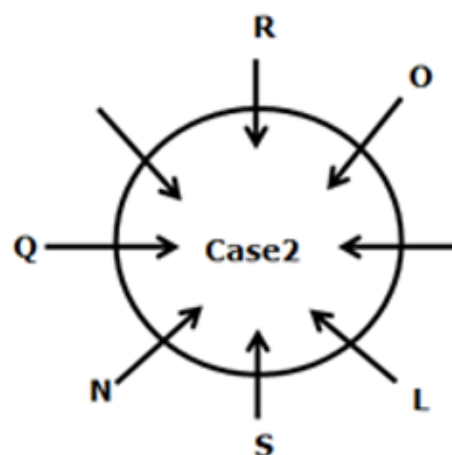
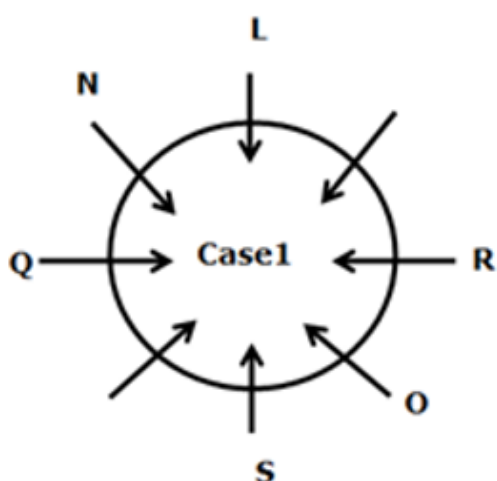
From the above condition, there are two possibilities.



Again we have,

- Neither O nor Q is an immediate neighbour of L.
- N sits third to the right of R and does not sit opposite to L.
- R and S are not immediate neighboururs.

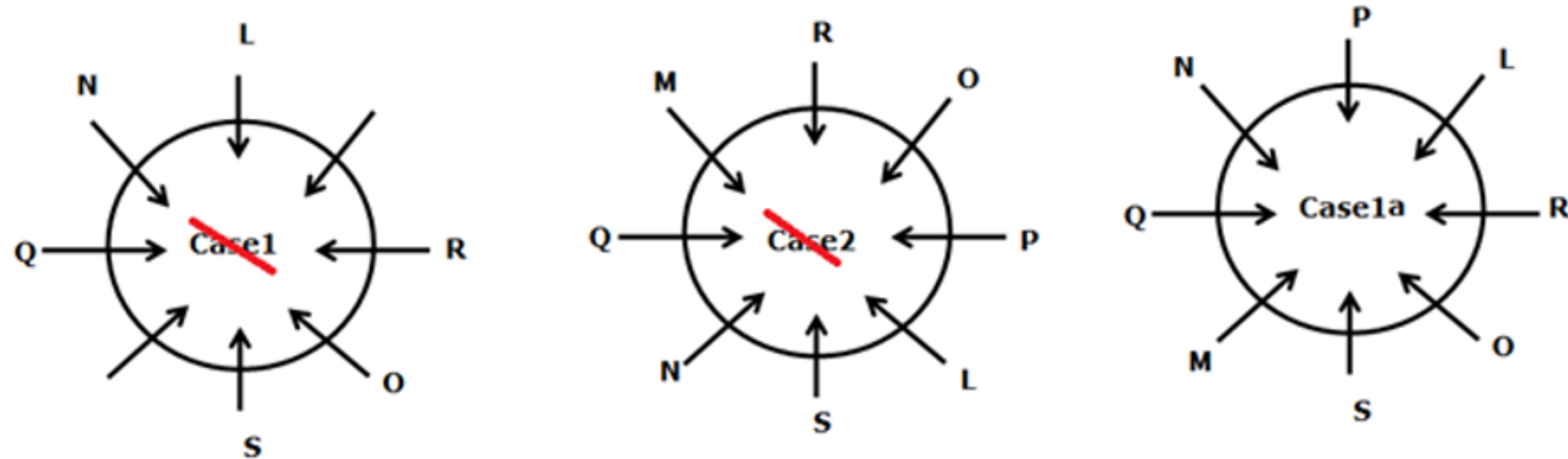
From the above condition, there are three possibilities.



Again we have,

- One person sits between R and P.
- M is either adjacent to Q or R, not both.

From the above condition, case1 and case2 get eliminated. case1a shows the final arrangement.



32. Read the instruction carefully and answer the questions based on it.

Study the following statements and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

A. Statement

Only a few Modem is Disk

No Disk is Memory

All Memory is Reboot

Conclusion

I) Some Disk is Reboot is a possibility

II) All Modem can be Memory

A Only I follows

B Either I or II follows

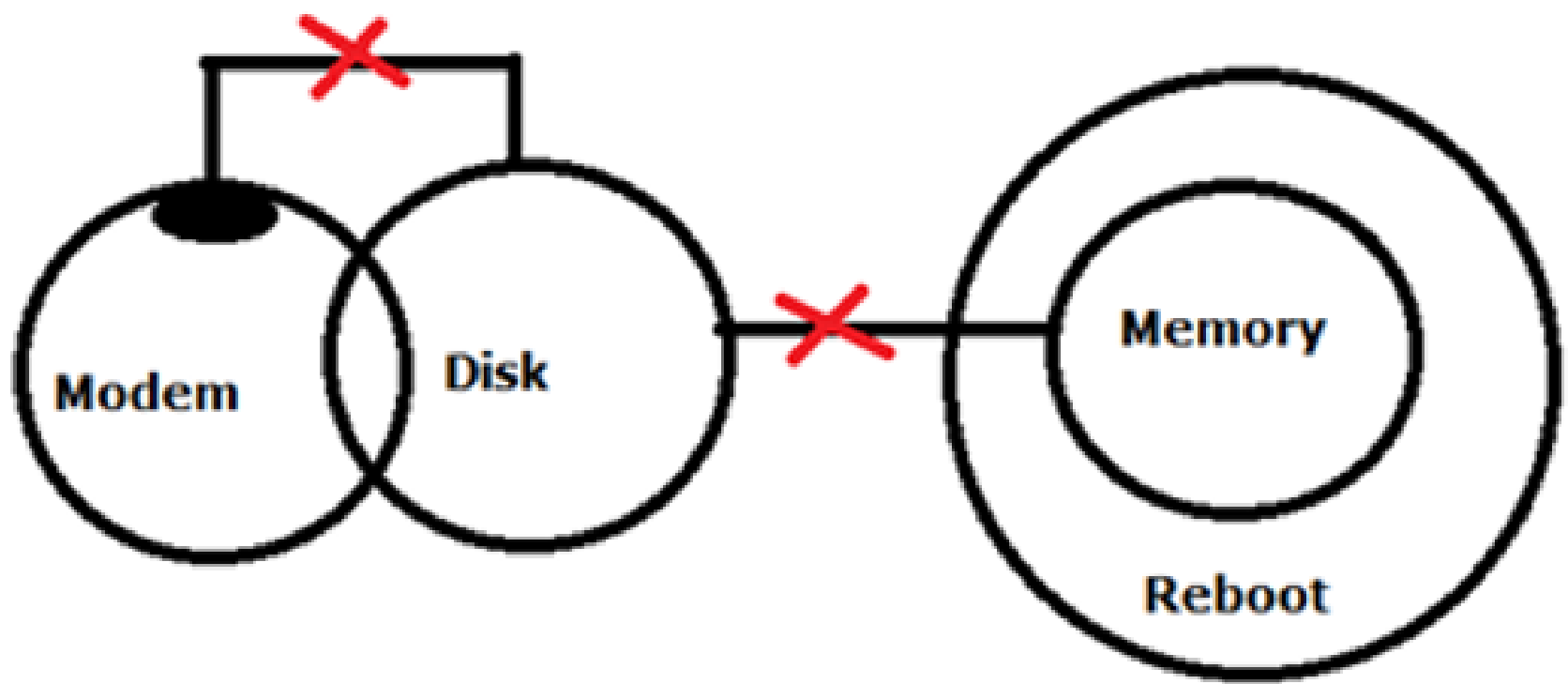
C Only II follows

D Both I and II follow

E Neither I nor II follows

Solution

Answer: A



B. Statements:

Some arc is line

All circle are triangle

No triangle is square

All line is triangle

Conclusion:

I. Some arc is not square

II. Some line is circle

ENTRI

A Only II follows

B Neither I nor II follows

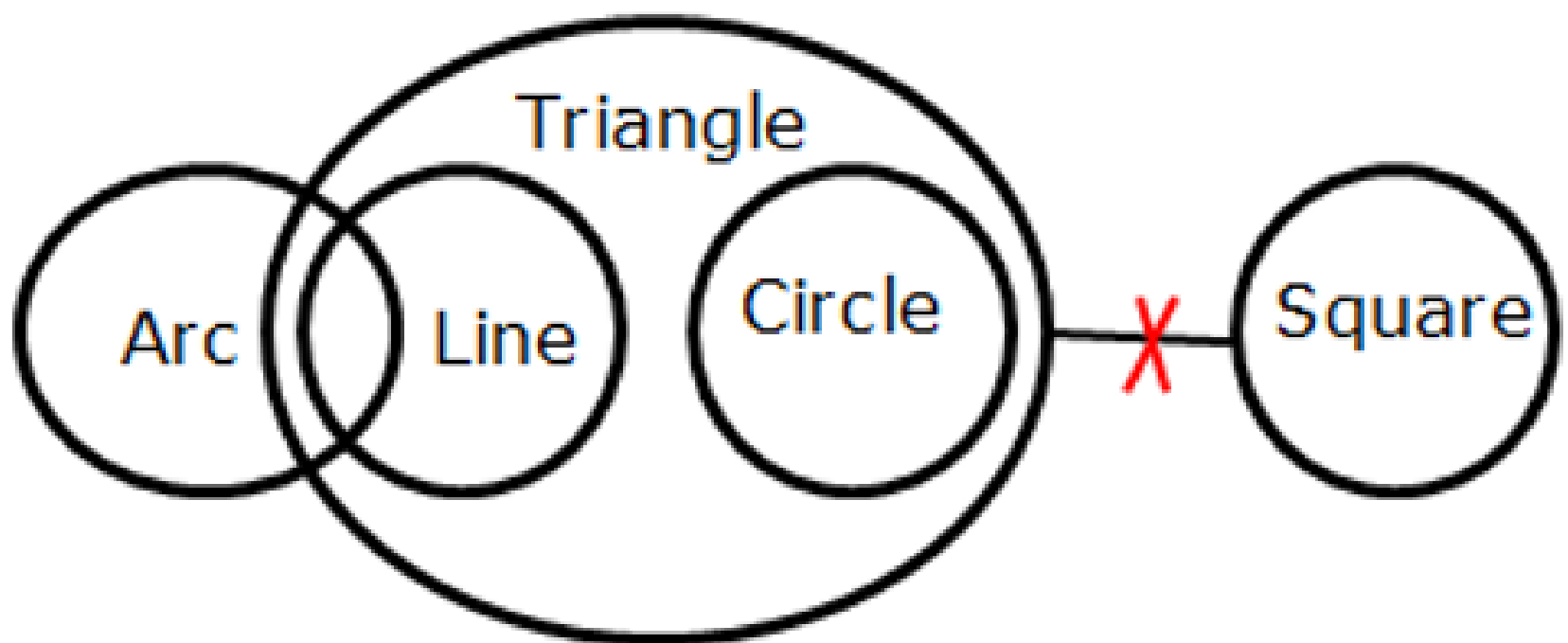
C Either I or II follows

D Only I follows

E Both I and II follow

Solution

Answer: D



C. Statement

Only a few Worm is Spyware

All Worm is Malware

No Malware is Trojan

Conclusion

I) Some Worm is Trojan is a possibility

II) Some Spyware is not a Trojan

A Only I follows

B Either I or II follows

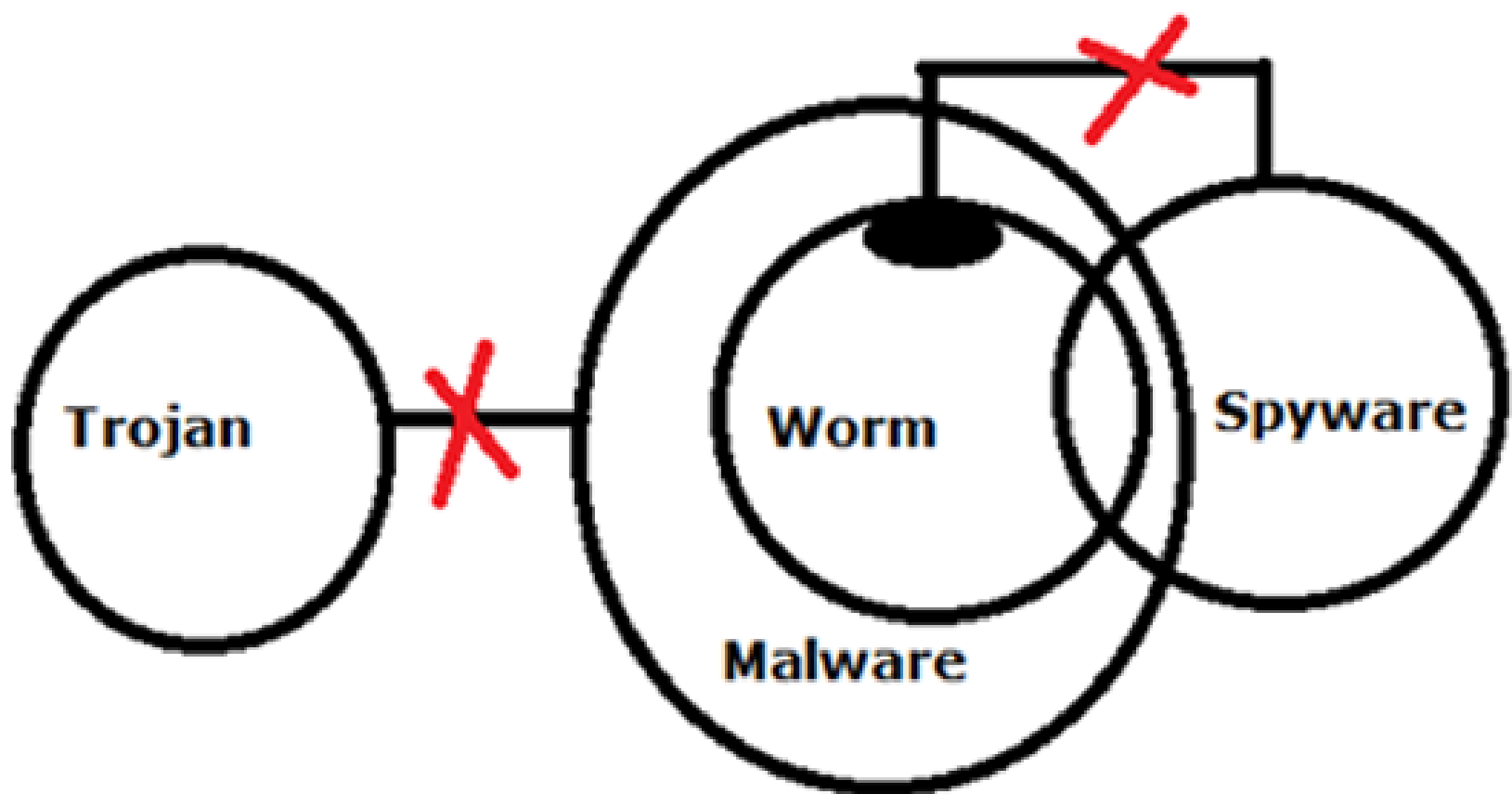
C Only II follows

D Both I and II follow

E Neither I nor II follows

Solution

Answer: C



D. Statement

Only a few Firewall is cookie

Some Cookie is Spam

Some Spam is Virus

Conclusion

I) No Cookie is Virus

II) All Firewall is Spam is not a possibility

A Only I follows

B Either I or II follows

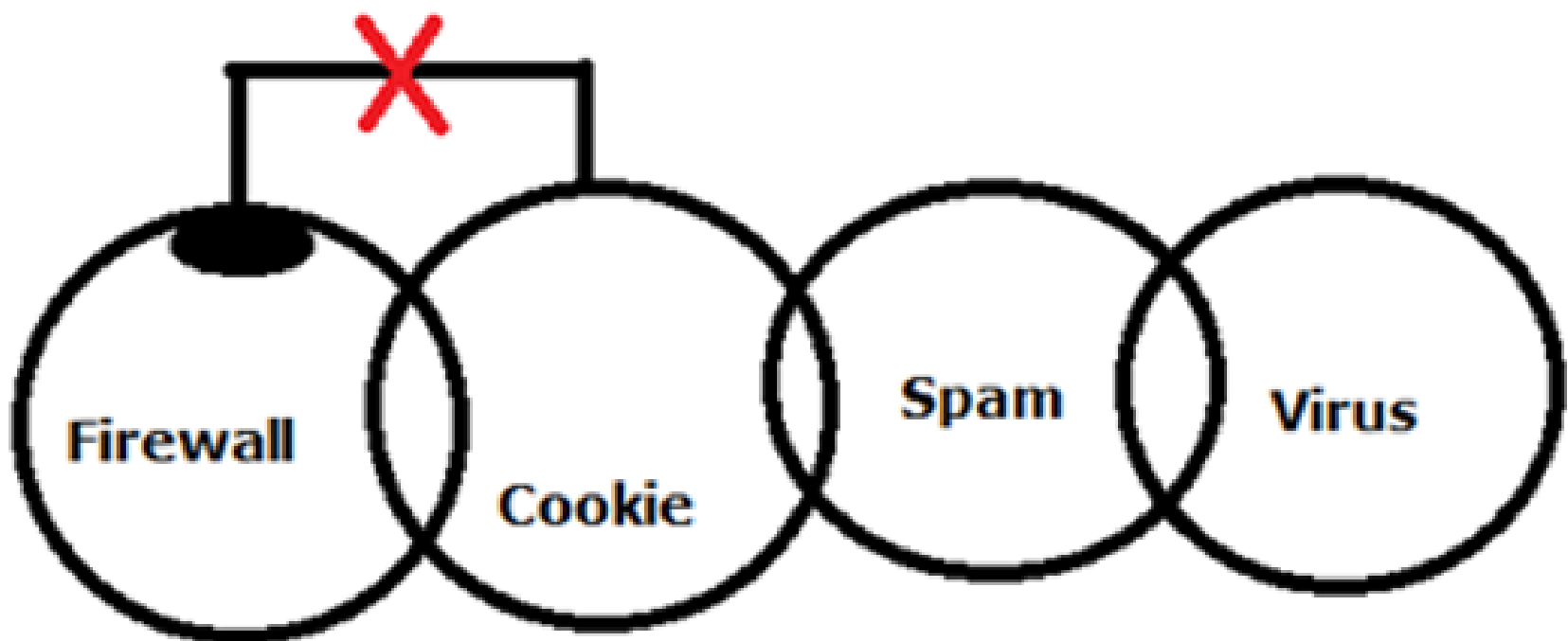
C Only II follows

D Both I and II follow

E Neither I nor II follows

Solution

Answer: E



E. Statement

Only a few Browser is Bandwidth

All Bandwidth is Broadband

No Broadband is Internet

Conclusion

I) No Internet is Bandwidth

II) Some Broadband is Browser

A Only I follows

B Either I or II follows

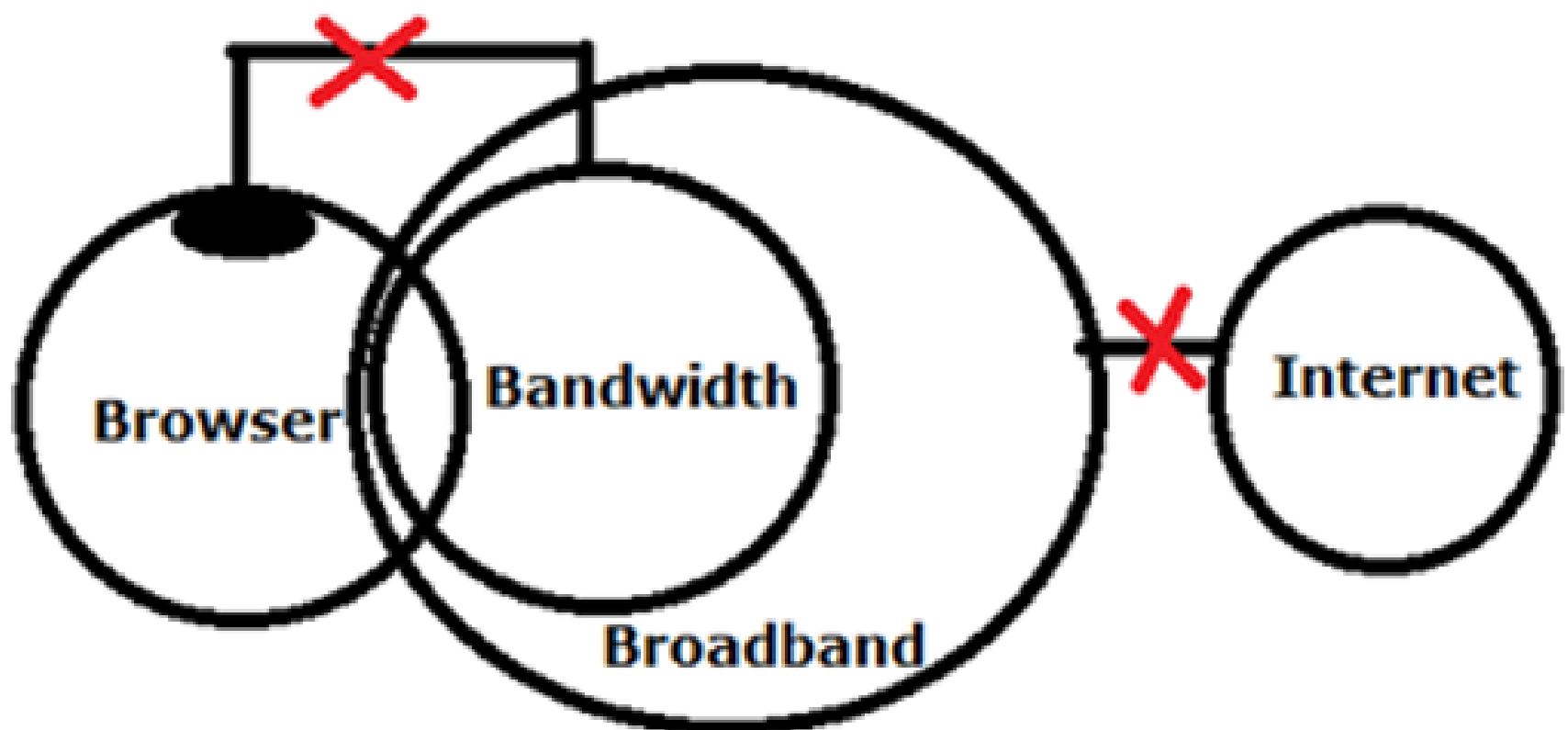
C Only II follows

D Both I and II follow

E Neither I nor II follows

Solution

Answer: D



33.

Study the following information carefully and answer the questions given below.

V 4 B 9 5 3 M ^ 7 2 H % 6 9 9 Z M I P 3 8 6 Y @ % # ! F U 1 \$ # @ 7 5 + U Q * 5

A. Which element is the fourth to the left of the sixth element to the right of the eighth element from the right end?

A V

B H

C 6

D 5

E U

Solution

$8 - 6 + 4 = 6$. Thus 6th element from the right end is '5'

B. If all the odd digits are removed then which of the following will be the sixth element to the left of the twelfth element from the left end?

A %

B 6

C Z

D 2

E H

Solution

After removing all odd digits, we have

V 4 B M ^ 2 H % 6 Z M I P 8 6 Y @ % # ! F U \$ # @ + U Q *

C. How many letters are immediately preceded by a digit and immediately followed by a symbol?

A No one

B One

C Two

D Three

E More than three

Solution

V 4 B 9 5 3 (M) ^ 7 2 (H) % 6 9 9 Z M I P 3 8 6 (Y) @ % # ! F U 1 \$ # @

D. How many elements are there between the first symbol from the left end and the first even digit from the right end?

A Nine

B Eight

C Eleven

D Ten

E Thirteen

Solution

V4B953M^(72H%699ZMIP38)6Y@%#!FU1\$#@

34. How many such pairs of letters are there in the word 'PARANORMAL' which has as many letters between them as in the English alphabet series? (Both forward and backward)?

A None

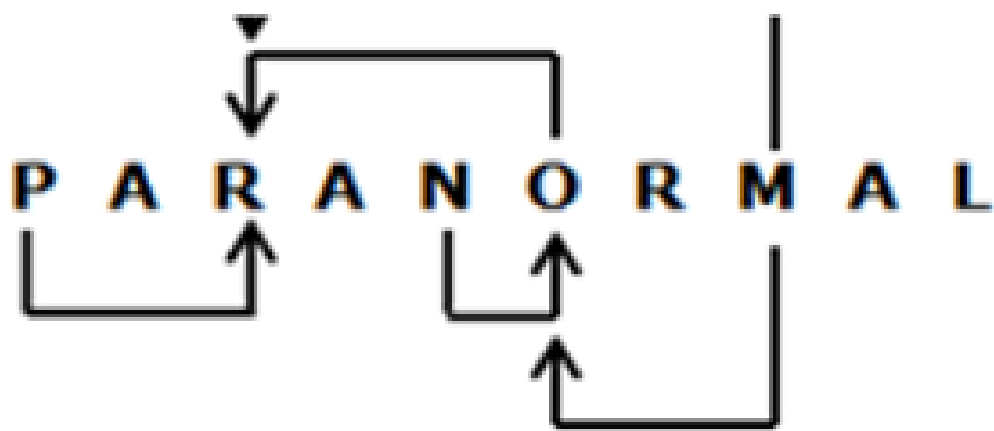
B One

C Two

D Three

E More than three

Solution



35. In the given number “629473518” from left to right, the digits at even position are increased by one and the digits at the odd position are decreased by two, Then which of the following number is fourth from the right end if the digits are arranged in descending order from left to right?

A 7

B 6

C 4

D 5

E 3

Solution

629473518

437554326

765544332

36.

Study the following information carefully and answer the below questions

There are six different persons with different weights- B, E, F, G, K, and S.

E is heavier than G. Only two persons are between E and S. E is lighter than only one person. The third lightest person's weight is 50kg. K is heavier than B but lighter than F. G's weight is 9kg more than that of K's weight.

- A. If the sum of the weights of G and S is 106 kg and the difference between the weight of E and S is 21 kg. Then what is the sum of the weights of E and G?**

A 121 Kg.

B 120 Kg.

C 110 Kg.

D 127 Kg.

E 125 Kg.

Solution

$$F > E > G (59 \text{ kg}) > K(50 \text{ kg}) > S > B$$

$$G+S=106$$

$$\rightarrow S=106-59=47;$$

$$E-S=21,$$

$$E=21+47=68;$$

$$E+G=68+59=127 \text{ Kg.}$$

B. If the difference between the weights of K and G is thrice of the difference between the weights of K and S and the sum of the weights of S and B is 89 kg, then the weight of B is__?

A 40 Kg

B 42 Kg

C 45 Kg

D 50 Kg

E 49 Kg

Solution

$$F > E > G (59 \text{ kg}) > K(50 \text{ kg}) > S > B$$

$$(G-K=59-50=9)$$

$$(K-S=\frac{9}{3}=3)$$

$$\backslash(-> S=50-3=47\backslash)$$

$$\backslash(S+B=89-47=42\backslash: Kg\backslash)$$

C. How many persons are heavier than G?

A No one

B One

C Two

D Three

E Four

Solution

$$F > E > G (59 \text{ kg}) > K(50 \text{ kg}) > S > B$$

37.

Study the following information carefully and answer the below questions

In a family, there are seven members and two married couples. V is the brother-in-law of M, vice versa. Q is the only son of M. N is the father of G. R is the mother-in-law of M's spouse. M does not have siblings. S is the maternal grandmother of Q. V is the son of N.

A. How G is related to R?

A Daughter-in-law

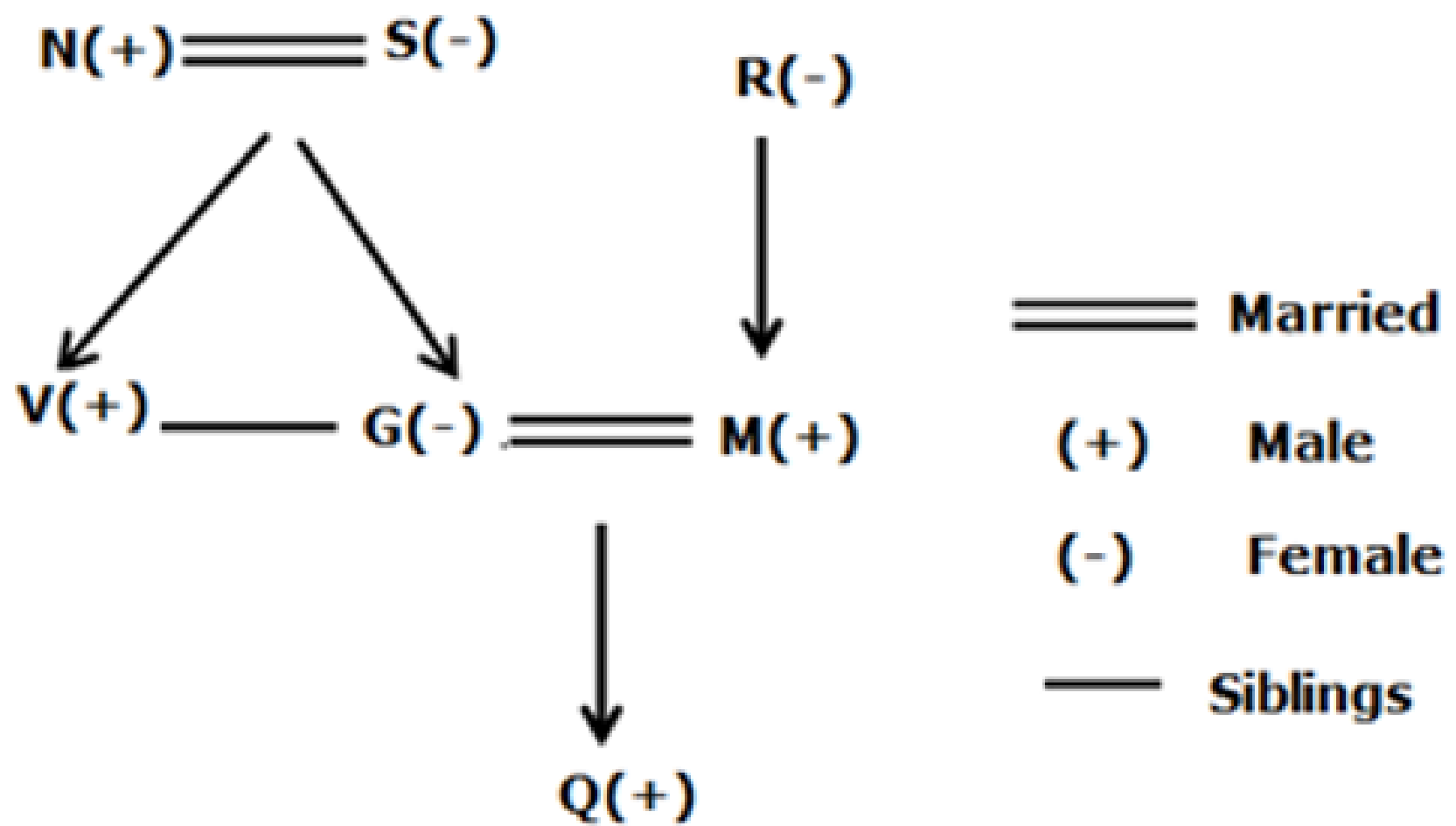
B Son-in-law

C Son

D Can't be determined

E Daughter

Solution



B. Who is the grandfather of Q?

A The one who is the father of V

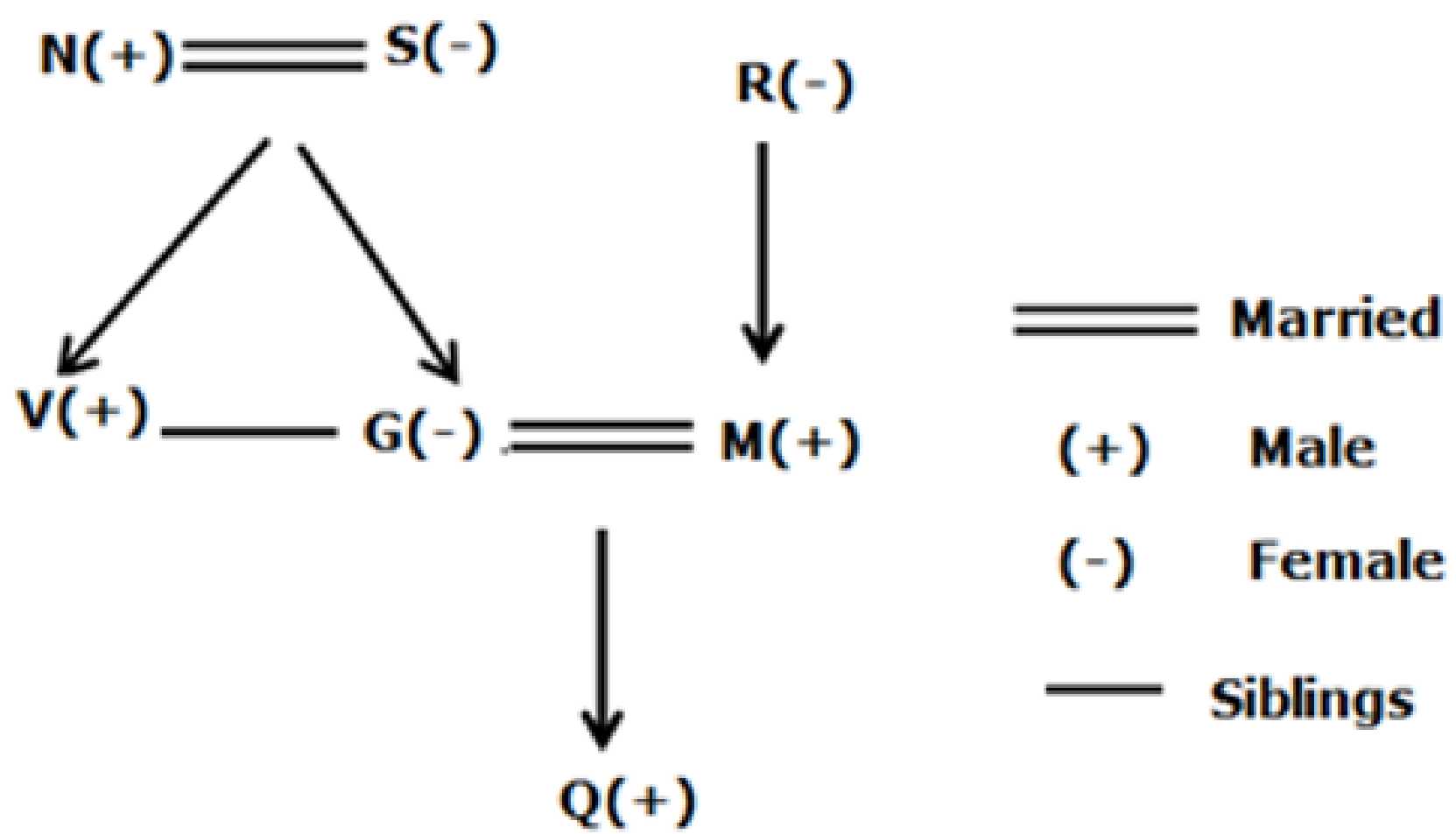
B The one who is the father-in-law of M

C N

D The one who is the spouse of S

E All of the above

Solution



38.

Study the following information carefully and answer the below questions.

In a certain code language

‘Binary Digit Byte Data’ means ‘39 45 71 62’,

‘Kilo Binary Mega Giga’ means ‘34 46 22 39’,

‘Digit Mega Bit Zetta’ means ‘98 86 22 45’,

‘Tera Byte Kilo Peta’ means ‘73 11 34 62’

A. If the sum of the code of “ Peta Digit” is 56 then what does “73 39” represent in a code language?

A Tera Binary

B Binary Kilo

C Peta Binary

D Can't be determined

E None of these

Solution

Binary	39	Mega	22
Digit	45	Giga	46
Byte	62	Bit/Zetta	98/86
Data	71	Tera/Peta	73/11
Kilo	34		

B. If the code of “Bit Data” is “ 86 71” then What is the code for ‘Zetta Kilo Byte’?

A 98 34 62

B 98 34 71

C 98 34 73

D 98 86 62

E 98 73 71

Solution

Binary	39	Mega	22
Digit	45	Giga	46
Byte	62	Bit/Zetta	98/86
Data	71	Tera/Peta	73/11
Kilo	34		

C. What is the code for ‘Bit Byte’ in the given language?

A 98 62

B 86 62

C 34 62

D 71 62

E Either A or B

Solution

Binary	39	Mega	22
Digit	45	Giga	46
Byte	62	Bit/Zetta	98/86
Data	71	Tera/Peta	73/11
Kilo	34		

D. What does "46" represent in a code language?

A Kilo

B Byte

C Binary

D Giga

E Digit

Solution

Binary	39	Mega	22
Digit	45	Giga	46
Byte	62	Bit/Zetta	98/86
Data	71	Tera/Peta	73/11
Kilo	34		

39.

Study the following information carefully to answer the given questions:

Eight persons – A, B, C, D, E, F, G, and H were born in different months i.e. January, March, April, June, September, October, November and December of the same year but not necessarily in the same order.

G was born before June month. There were two persons born between G and D, who was born in the month which has 30 days. F was born just after the month in which B was born and was born just before H. There was one person born between C and A. E was born just after A.

A. How many persons were born between A and B?

A None

B One

C Two

D Three

E More than three

Solution

From the given statements, G was born before June month.

There are two persons were born between G and D, who was born in the month which has 30 days.

Here we have two possibilities i.e. Case 1 and Case 2.

Case 1		Case 2	
Month	Persons	Month	Persons
January	G	January	
March		March	G
April		April	
June	D	June	
September		September	D
October		October	
November		November	
December		December	

From the given statements,

F was born just after the month in which B was born and was born just before H.

Now, one more possibility arises here i.e. Case 1a.

Case 1		Case 2		Case 1a	
Month	Persons	Month	Persons	Month	Persons
January	G	January		January	G
March		March	G	March	
April		April		April	
June	D	June		June	D
September	B	September	D	September	
October	F	October	B	October	B
November	H	November	F	November	F
December		December	H	December	H

From the given statements, there was one person born between C and A.

Here Case 1 is ruled out now.

E was born just after A.

Here Case 1a is also ruled out. So, the final arrangement is such as-

Month	Persons
January	C
March	G
April	A
June	E
September	D
October	B
November	F
December	H

B. Who among the following person was born just before C?

A No one

B G

C A

D E

E D

Solution

From the given statements, G was born before June month.

There are two persons were born between G and D, who was born in the month which has 30 days.

Here we have two possibilities i.e. Case 1 and Case 2.

Case 1**Case 2**

Month	Persons	Month	Persons
January	G	January	
March		March	G
April		April	
June	D	June	
September		September	D
October		October	
November		November	
December		December	

From the given statements,

F was born just after the month in which B was born and was born just before H.

Now, one more possibility arises here i.e. Case 1a.

Case 1**Case 2****Case 1a**

Month	Persons	Month	Persons	Month	Persons
January	G	January		January	G
March		March	G	March	
April		April		April	
June	D	June		June	D
September	B	September	D	September	
October	F	October	B	October	B
November	H	November	F	November	F
December		December	H	December	H

From the given statements, there was one person born between C and A.
Here Case 1 is ruled out now.
E was born just after A.
Here Case 1a is also ruled out. So, the final arrangement is such as-

Month	Persons
January	C
March	G
April	A
June	E
September	D
October	B
November	F
December	H

C. Who among the following person was born in October?

- A

A
- B

B
- C

H

D

D

E

None of these

Solution

From the given statements, G was born before June month.
There are two persons were born between G and D, who was born in the month which has 30 days.
Here we have two possibilities i.e. Case 1 and Case 2.

Case 1

Case 2

Month	Persons	Month	Persons
January	G	January	
March		March	G
April		April	
June	D	June	
September		September	D
October		October	
November		November	
December		December	

From the given statements,
F was born just after the month in which B was born and was born just before H.
Now, one more possibility arises here i.e. Case 1a.

Case 1		Case 2		Case 1a	
Month	Persons	Month	Persons	Month	Persons
January	G	January		January	G
March		March	G	March	
April		April		April	
June	D	June		June	D
September	B	September	D	September	
October	F	October	B	October	B
November	H	November	F	November	F
December		December	H	December	H

From the given statements, there was one person born between C and A.

Here Case 1 is ruled out now.

E was born just after A.

Here Case 1a is also ruled out. So, the final arrangement is such as-

Month	Persons
January	C
March	G
April	A
June	E
September	D
October	B
November	F
December	H

D. Which of the following is true, as per the given information?

A There were three persons born between G and D

B No one was born after H

C F was born just before A

D C was born in the month which has 30 days

E All are true

Solution

From the given statements, G was born before June month.

There are two persons were born between G and D, who was born in the month which has 30 days.

Here we have two possibilities i.e. Case 1 and Case 2.

Case 1**Case 2**

Month	Persons	Month	Persons
January	G	January	
March		March	G
April		April	
June	D	June	
September		September	D
October		October	
November		November	
December		December	

From the given statements,

F was born just after the month in which B was born and was born just before H.

Now, one more possibility arises here i.e. Case 1a.

Case 1**Case 2****Case 1a**

Month	Persons	Month	Persons	Month	Persons
January	G	January		January	G
March		March	G	March	
April		April		April	
June	D	June		June	D
September	B	September	D	September	
October	F	October	B	October	B
November	H	November	F	November	F
December		December	H	December	H

From the given statements, there was one person born between C and A.
Here Case 1 is ruled out now.
E was born just after A.
Here Case 1a is also ruled out. So, the final arrangement is such as-

Month	Persons
January	C
March	G
April	A
June	E
September	D
October	B
November	F
December	H

E. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?

A

C

B

G

C H

D B

E F

Solution

From the given statements, G was born before June month.
There are two persons were born between G and D, who was born in the month which has 30 days.
Here we have two possibilities i.e. Case 1 and Case 2.

Case 1Case 2

Month	Persons	Month	Persons
January	G	January	
March		March	G
April		April	
June	D	June	
September		September	D
October		October	
November		November	
December		December	

From the given statements,

F was born just after the month in which B was born and was born just before H.

Now, one more possibility arises here i.e. Case 1a.

Case 1		Case 2		Case 1a	
Month	Persons	Month	Persons	Month	Persons
January	G	January		January	G
March		March	G	March	
April		April		April	
June	D	June		June	D
September	B	September	D	September	
October	F	October	B	October	B
November	H	November	F	November	F
December		December	H	December	H

From the given statements, there was one person born between C and A.

Here Case 1 is ruled out now.

E was born just after A.

Here Case 1a is also ruled out. So, the final arrangement is such as-

Month	Persons
January	C
March	G
April	A
June	E
September	D
October	B
November	F
December	H

40.

Study the following information carefully and answer the questions given below.

Ten persons – Q, R, S, T, U, V, W, X, Y and Z – are living on a five-storey building such as ground floor is numbered as 1, just above it is floor 2 then top floor is numbered as 5. Each of the floors consists of two flats as flat-1 and flat-2. Flat-1 of floor-2 is immediately above flat-1 of floor-1 and immediately below flat-1 of floor-3. In the same way, flat-2 of floor-2 is immediately above flat-2 of floor-1 and immediately below flat-2 of floor-3 and so on. Flat-1 is in the west of flat-2. The following information is known about them.

Only two floors are there between R's floor and Z's floor but none of them lives on an even-numbered flat. Y lives on an even-numbered floor and three floors below W's floor. Y and Z live on different numbered flat. X lives immediately above V's flat in the same flat number. Q lives below R and on the same floor as V. T lives on the same flat number of X but the different flat number of W. The number of floors between Z and X is one more than the number of floors between Q and S. T lives on a prime numbered floor.

A. Which of the following statement(s) is/are false?

I. S and X live on the same numbered floor

II. Y and T live on the same numbered flat

III. Q lives immediately above U's floor

A Only III

B Both II and III

C Only I



Only II



Both I and II

Solution

- Only two floors are there between R’s floor and Z’s floor but none of them lives on an even-numbered flat.
- Y lives on an even-numbered floor and three floors below W’s floor.
- Y and Z live on different numbered flat.

Floors	Case 1		Case 2	
	Flat 1	Flat 2	Flat 1	Flat 2
5	R/Z	W	W/	W/
4			R/Z	
3				
2	R/Z	Y		Y
1			R/Z	

- X lives immediately above V’s flat in the same flat number.
- Q lives below R and on the same floor as V.
- T lives on the same flat number of X but the different flat number of W.

Floors	Case 1		Case 2	
	Flat 1	Flat 2	Flat 1	Flat 2
5	R	W	W	
4	X		R	X
3	V	Q	Q	V
2	Z	Y		Y
1	T		Z	

- The number of floors between Z and X is one more than the number of floors between Q and S.
- T lives on a prime numbered floor. This eliminates case 1.

Floors	Case 1		Case 2	
	Flat 1	Flat 2	Flat 1	Flat 2
5	R	W	W	T
4	X	S	R	X
3	V	Q	Q	V
2	Z	Y	U	Y
1	T	U	Z	S

B. Who among the following lives on flat 2 of floor 3?

A

 V

B

Q

C

U

D

Y

E

S

Solution

- Only two floors are there between R’s floor and Z’s floor but none of them lives on an even-numbered flat.
- Y lives on an even-numbered floor and three floors below W’s floor.
- Y and Z live on different numbered flat.

Floors	Case 1		Case 2	
	Flat 1	Flat 2	Flat 1	Flat 2
5	R/Z	W	W/	W/
4			R/Z	
3				
2	R/Z	Y		Y
1			R/Z	

- X lives immediately above V’s flat in the same flat number.
- Q lives below R and on the same floor as V.
- T lives on the same flat number of X but the different flat number of W.

Floors	Case 1		Case 2	
	Flat 1	Flat 2	Flat 1	Flat 2
5	R	W	W	
4	X		R	X
3	V	Q	Q	V
2	Z	Y		Y
1	T		Z	

- The number of floors between Z and X is one more than the number of floors between Q and S.
- T lives on a prime numbered floor. This eliminates case 1.

Floors	Case 1		Case 2	
	Flat 1	Flat 2	Flat 1	Flat 2
5	R	W	W	T
4	X	S	R	X
3	V	Q	Q	V
2	Z	Y	U	Y
1	T	U	Z	S

C. Which of the following pair lives on the topmost floor?

A W, T

B R, T

C W, X

D Z, S

E W, S

Solution

- Only two floors are there between R's floor and Z's floor but none of them lives on an even-numbered flat.
- Y lives on an even-numbered floor and three floors below W's floor.
- Y and Z live on different numbered flat.

Floors	Case 1		Case 2	
	Flat 1	Flat 2	Flat 1	Flat 2
5	R/Z	W	W/	W/
4			R/Z	
3				
2	R/Z	Y		Y
1			R/Z	

- X lives immediately above V’s flat in the same flat number.
- Q lives below R and on the same floor as V.
- T lives on the same flat number of X but the different flat number of W.

Floors	Case 1		Case 2	
	Flat 1	Flat 2	Flat 1	Flat 2
5	R	W	W	
4	X		R	X
3	V	Q	Q	V
2	Z	Y		Y
1	T		Z	

- The number of floors between Z and X is one more than the number of floors between Q and S.
- T lives on a prime numbered floor. This eliminates case 1.

Floors	Case 1		Case 2	
	Flat 1	Flat 2	Flat 1	Flat 2
5	R	W	W	T
4	X	S	R	X
3	V	Q	Q	V
2	Z	Y	U	Y
1	T	U	Z	S

D. Who lives immediately above the floor of X?

A T

B R

C V

D Y

E S

Solution

- Only two floors are there between R’s floor and Z’s floor but none of them lives on an even-numbered flat.
- Y lives on an even-numbered floor and three floors below W’s floor.
- Y and Z live on different numbered flat.

Floors	Case 1		Case 2	
	Flat 1	Flat 2	Flat 1	Flat 2
5	R/Z	W	W/	W/
4			R/Z	
3				
2	R/Z	Y		Y
1			R/Z	

- X lives immediately above V’s flat in the same flat number.
- Q lives below R and on the same floor as V.
- T lives on the same flat number of X but the different flat number of W.

Floors	Case 1		Case 2	
	Flat 1	Flat 2	Flat 1	Flat 2
5	R	W	W	
4	X		R	X
3	V	Q	Q	V
2	Z	Y		Y
1	T		Z	

- The number of floors between Z and X is one more than the number of floors between Q and S.
- T lives on a prime numbered floor. This eliminates case 1.

Floors	Case 1		Case 2	
	Flat 1	Flat 2	Flat 1	Flat 2
5	R	W	W	T
4	X	S	R	X
3	V	Q	Q	V
2	Z	Y	U	Y
1	T	U	Z	S

E. Four of the following are alike in a certain way and hence form a group. Who among the following does not belong to the group?

A Q

B R

C U

D W

E

T

Solution

- Only two floors are there between R’s floor and Z’s floor but none of them lives on an even-numbered flat.
- Y lives on an even-numbered floor and three floors below W’s floor.
- Y and Z live on different numbered flat.

Floors	Case 1		Case 2	
	Flat 1	Flat 2	Flat 1	Flat 2
5	R/Z	W	W/	W/
4			R/Z	
3				
2	R/Z	Y		Y
1			R/Z	

- X lives immediately above V’s flat in the same flat number.
- Q lives below R and on the same floor as V.
- T lives on the same flat number of X but the different flat number of W.

Floors	Case 1		Case 2	
	Flat 1	Flat 2	Flat 1	Flat 2
5	R	W	W	
4	X		R	X
3	V	Q	Q	V
2	Z	Y		Y
1	T		Z	

- The number of floors between Z and X is one more than the number of floors between Q and S.
- T lives on a prime numbered floor. This eliminates case 1.

Floors	Case 1		Case 2	
	Flat 1	Flat 2	Flat 1	Flat 2
5	R	W	W	T
4	X	S	R	X
3	V	Q	Q	V
2	Z	Y	U	Y
1	T	U	Z	S



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