

Wipro WILP Model Question Papers Set 2



Verbal Ability

1) In the question given below, a sentence is given with one blank, followed by five options, each having a word which may or may not fit in the blank. From the given options, choose the one that gives the correct word that fits in the blank.

The petition from the army to the parliament for arrears of pay was _____ and the petitioners declared enemies of the state.

- A - revealed
- B - concealed
- C - suppressed
- D -impressed
- E - subdue

Solution

We need a verb here in the past participle form to fit in the passive voice construction WAS + VERB. The sentence talks about how the petition was forcibly ended. SUPPRESSED can fit here and convey the requisite meaning. Thus, (c) is the right answer.

Revealed - to let out information. Concealed - hid. Impressed - to make someone feel admiration or respect. SUBDUE is a verb in the base form.

2) In the given question, a sentence has been broken into four parts and the parts are jumbled. Choose the option which provides the correct way to re-arrange the parts to form a grammatically and

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contextually meaningful sentence. If all the parts are correctly placed, mark (e) as your answer.

hostilities appeared to be imminent (A)/ were being carried on in both (B)/ states, and the outbreak of active (C)/ in December 1901, warlike preparations (D)

A - BCDA

B - DBCA

C - DCBA

D - BDCA

E - No rearrangement required

Solution

DBCA is the final order. D begins the sentence by establishing the subject - warlike preparations. B follows with the verb stem - it tells us that these preparations were being carried on. C follows by telling us where these were being carried out - in both states. A concludes by telling us the effect of this - the outbreak of hostilities was imminent. Thus, (b) is the right answer.

3) In the question given below, a sentence is given with one blank, followed by five options, each having a word which may or may not fit in the blank. From the given options, choose the one that gives the correct word that fits in the blank.

Colonialism profoundly built up and shaped many of the _____ industries and processes that are currently at play in the region.

A - massive

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B - immense

C - bulk

D - vastly

E - mass

Solution

We need an adjective here to modify the noun INDUSTRIES AND PROCESSES. The sentence talks about how colonialism shaped many of the big industries that are currently operating in the region. MASSIVE means huge and will fit here. Thus, (a) is the right answer

4) In the following question, a sentence is given, divided into 5 parts. Part (E) is grammatically correct. Out of the other four parts, one part has an error. Mark the option containing the part with the error. If none of the parts have errors, mark 'No error' as your answer.

As the gate of the elephant yard (A)/ lifted, a keeper admonished (B)/ everyone to stood farther back, (C)/ even though there were bars (D)/ separating us from the animals. (E)

A - A

B - B

C - C

D - D

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Solution

In C, replace the second form verb STOOD with STAND as the infinitive construction TO + VERB will take the base form of the verb. Thus, (c) is the right answer.

5) In the following question, a sentence is given, divided into 5 parts. Part (E) is grammatically correct. Out of the other four parts, one part has an error. Mark the option containing the part with the error. If none of the parts have errors, mark 'No error' as your answer.

Environmental advocates and others (A)/ were alarm when Brazilian (B)/ President Jair Bolsonaro announced plans (C)/ to rebuild the road in order (C)/ to spur economic development. (E)

A - A

B - B

C - C

D - D

Solution

In B, replace the verb ALARM with the adjective ALARMED as it is being used to modify the subject ENVIRONMENTAL ADVOCATES AND OTHERS. Thus, (b) is the right answer.

6) . In the question given below, rearrange the parts of the sentence in the correct order, and choose the correct option.

since the first eggs laid on land (A)/ thicker, harder shells that prevented moisture loss (B)/ of birds and reptiles started laying eggs with (C)/ were vulnerable to drying out, the ancestors (D)

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A - ACDB

B - ADCB

C - BADC

D - BCAD

Solution

ADCB is the final order. A begins the sentence by introducing the surrounding context, and telling us about the first eggs laid by animals on land. D continues by telling us how these eggs were vulnerable to drying out. D also establishes the subject - the ancestors. C follows with the verb stem, and tells us what the ancestors of birds and reptiles began to do - laying eggs with thick and hard shells (continued by B). Thus, (b) is the right answer.

7) In the question given below, rearrange the parts of the sentence in the correct order, and choose the correct option.

there is still some mystery left to discover (A)/ to the extent that unmanned aerial vehicles (B)/ can be sent anywhere on the planet, (C)/ though we may have mastered the skies (D)

A - CBDA

B - DBCA

C - DACB

D - CDAB

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Solution

DBCA is the final order. D begins the sentence by establishing the surrounding context - we have mastered the skies. BC follows as a pair by giving evidence of this - unmanned aerial vehicles can be sent anywhere on the planet. A concludes by telling us that there is still much to be discovered. Thus, (b) is the right answer.

8) In the following question, a sentence has been given in Direct/ Indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Direct/ Indirect speech.

He said to his son, "I do not like your attire."

A - He told his son that he does not like his attire.

B - He told his son that he did not like his attire.

C - He told his son that he did not like their attire.

D - He told his son that I did not like their attire.

Solution

Option (b) is the right answer.

The sentence is in direct speech and in simple present tense. To convert this sentence to the

indirect speech, follow these rules:

1. Remove the comma and the inverted commas.
2. In the quoted part of the speech, change the first person subjective pronoun I to the third person subjective pronoun HE.

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3. Change the second person possessive pronoun YOUR according to third person possessive HIS(according to the object of the reported verb (SON)).
4. Put THAT between the reporting and reported speeches.
5. Change the reporting verb SAID to TOLD and begin the indirect speech sentence with the reporting speech clause HE TOLD HIS SON.
5. Change the simple present tense of the verb DO to the simple past DID.

9) In the following question, a sentence has been given in Active/ Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/ Active Voice

You are not taking me seriously.

- A - You have not been taking I seriously.
- B - I have not been taken seriously by you.
- C - I am not being taken seriously by you.
- D - I had not been taken seriously by you.

Solution

The sentence is in present continuous tense and active voice. Follows the rules to convert it into passive voice:

1. The subject clause will become the object clause. Here, the subject ('You') will change to the object of the verb ('you'), and the object ('me') will change into the subject ('I') and begin the sentence.

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2. Replace 'are not taking' by 'am not being taken'. The passive voice construction for present continuous tense is "is/am/are + (not) + being + Past participle form of the verb".

3. Add the conjunction 'by' before 'you' to link the verb with its object.

Thus, (c) is the correct answer.

(10 -14) In the following passage, some of the words have been left out and replaced by a blank. First read the passage and try to understand what it is about. Then fill in the blanks as per the questions given.

Mountainous and meditative, Sikkim is a real-life Shangri-La boasting _____, deep valleys and soaring snow-capped peaks. The _____ landscape of this remote, sacred place is dotted with _____ traditional Tibetan Buddhist monasteries and Hindu shrines. Sikkim's lofty, modern capital Gangtok, elevation 5,410 feet, is the gateway to monastery tours and outdoor adventure, such as Himalayan mountain treks and guided _____ to the Khangchendzonga National Park UNESCO World Heritage Site. The park is named for the world's third-highest peak, Khangchendzonga, which reaches _____ of 4,000 to 28,170 feet above sea level and is part of the Khangchendzonga UNESCO Biosphere Reserve, one of the highest ecosystems in the world. On clear days, Khangchendzonga may be visible from Gangtok.

10) boasting _____, deep valleys

- a) Lush
- b) Richly
- c) Rush
- d) Wealthy

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Correct Choice: a

Solution

We need an adjective here to modify the noun VALLEYS. LUSH will fit here as it means rich and green, which would be suitable to describe how the valley looks. Thus, (a) is the right answer.

11) RICHLY is an adverb. RUSH is a verb which means to hurry. WEALTHY means financially well off.

The _____ landscape of this

- a) Scenic
- b) Stun
- c) Scenery
- d) Divinely

Correct Choice: a

Solution

We need an adjective here to modify the noun LANDSCAPE. The sentence talks about the beauty of the landscape of Sikkim. SCENIC means aesthetically beautiful and will fit here. Thus, (a) is the right answer.

STUN means surprise, but it is a verb. SCENERY is a noun. DIVINELY is an adverb.

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12) is dotted with _____ traditional

- a) Numerous
- b) Number
- c) Novel
- d) Immutable

Correct Choice: a

Solution

We need an adjective here to modify the noun MONASTERIES. NUMEROUS means several and will fit here. Thus, (a) is the right answer.

NUMBER is a noun. NOVEL means new but it will contradict TRADITIONAL. Immutable - unchanging.

13) and guided _____ to the

- a) Tripping
- b) Expeditions
- c) Excerpts
- d) Extracts

Correct Choice: b

Solution

We need a noun here to be modified by the adjective GUIDED. EXPEDITIONS will fit here as the sentence talks about trips to a national park. Thus, (b) is the right answer.

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TRIPPING means to fall over something. EXCERPTS and EXTRACTS refer to a part of a written text.

14) which reaches _____ of 4,000

- a) Heights
- b) Elevate
- c) Range
- d) Evidence

Correct Choice: a

Solution

We need a noun to form the object of the verb REACHES. HEIGHTS will fit here as the sentence talks about how high the peak is. Thus, (a) is the right answer.

ELEVATE means to raise and it is a verb. RANGE will be contextually inapt. Evidence - proof.

15) In the following question, four different spellings of a word are given, out of which only one is correct. Find the correct spelling of the given word.

- A - Qurious
- B - Curious
- C - Quorious
- D - Kurious

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Solution

The correct spelling is 'curious' and its meaning is "eager to know or learn something". Thus, (b) is the correct answer.

16) In the question given below, rearrange the sentences in the correct order, and choose the correct option.

P. This is the story of Sundarbans and how Volvo machinery is building tomorrow in a very unique part of the world.

Q. Along the Bay of Bengal, 4.5 million people are living under the constant threat of rising sea levels and recurring cyclones.

R. Tens of thousands of people have lost their homes the last decades.

S. A major source of protection is embankments and now, new ones are being built to protect the population.

a) SQRP

b) SPRQ

c) PQRS

d) PSQR

Correct Choice: c

Solution

PQRS is the final order. P begins the passage by introducing the main topic around which the passage revolves - the story of the Sundarbans and how Volvo machinery is helping change its future. Q follows by beginning the story - how many people are living under the constant threat of rising sea levels and cyclones. R follows by telling us how so many people have lost

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their homes due to these threats. S concludes by telling us the course of action that is being taken to solve the problem. Thus, (c) is the right answer.

17) In the given sentence, a blank is given indicating that something is missing. From the given four options, choose the one that provides the correct word to be filled in the blank, thereby making the sentence grammatically and contextually correct.

Not even the _____ fan could resist becoming irate at the unfair referee calls.

- a) Obvious
- b) Equable
- c) Equivalent
- d) Ego

Correct Choice :b

Solution

(b) is the right answer. We need an adjective to modify the noun FAN. The context implies that some fans were unhappy with the referee calls.

EQUABLE means not easily disturbed or angered; calm and even-tempered. Other words do not fit contextually.

OBVIOUS- easily perceived or understood; clear, self-evident, or apparent.

EQUIVALENT- equal in value, amount, function, meaning, etc.

EGO- a person's sense of self-esteem or self-importance.

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18) In the following question , a sentence is given in which an idiom is highlighted. From the options below, choose the one that gives the correct meaning of the idiom.

This election is an eyewash, the leader has already been selected.

- a) A deceptive action
- b) A futile effort
- c) An important day
- d) An event or action that one is ashamed of

Correct Choice : a

Solution

‘Eyewash’ means “misleading or deceptive statements, actions, or procedures”. Thus, (a) is the correct answer.

19) In the following question, choose the word opposite in meaning to the given word.

Vague

- A - Different
- B - Specific
- C - Similar
- D - Calm

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Solution

'Vague' means indefinite or unclear. Its antonyms are specific, specialised, clear, etc. Thus, (b) is the correct answer

20) In the following question, out of the four alternatives, choose the one which best expresses the meaning of the given word.

Conjecture

A - aspiration

B - relish

C - rapture

D - speculation

Solution

(d) is the right answer.

Conjecture/ speculation – guess. Relish – enjoyment. Rapture – great excitement or joy.

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Analytical

1) How many triangles does the figure have?



a) 6

b) 2

c) 5

d) 7

Correct Choice: c

Solution

There are 5 triangles in the figure.

Hence, option c.

2) In the question, assuming the given statements to be true, find which of the conclusion (s) among given three conclusions is /are definitely true and then give your answer accordingly.

Statements: $V < Q \leq D$; $A < V$; $R < D \geq S$

Conclusions:

I. $S < V$

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II. $A < D$

III. $R < Q$

A - Only conclusion II is true.

B - Only conclusions I and II are true.

C - Only conclusions II and III are true.

D - Only conclusion I is true.

Solution

Given statements: $V < Q \leq D$; $A < V$; $R < D \geq S$

On combining, we get

$A < V < Q \leq D > R$; $S \leq D \geq Q > V$

Conclusions:

I. $S < V$: False (As $S \leq D \geq Q > V$, relation between S and V can't be determined)

II. $A < D$: True (As $A < V < Q \leq D$, so $A < D$)

III. $R < Q$: False (As $Q \leq D > R$, relation between R and Q can't be determined)

Hence, option a.

(3-4) Answer the following questions based on the information given below:
A % B means A is the wife of B;
A @ B means A is the son of B;
A \$ B means A is the brother of B;
A & B means A is the daughter of B;
A * B means A is the sister of B.

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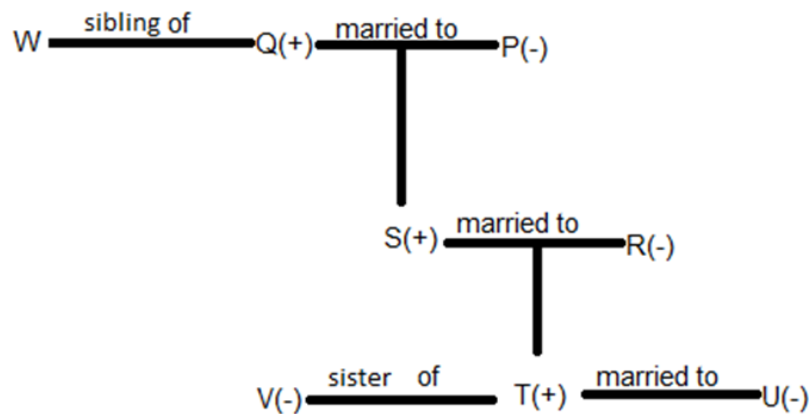
3) $U\%T\$V\&R\%S@P\%Q\W , If V is 20years old, what can be the possible age of Q?

- A - 18 years
- B - 20 years
- C - 45 years
- D - Either (b) or (c)
- E - None of these

Solution

The above expression can be decoded as, U is the wife of T, who is brother of V, who is daughter of R, who is wife of S, who is son of P, who is wife of Q, who is brother of W.

The final arrangement is as follows:



So, Q can be 45 years old.

Hence, option c.

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4) If F is the niece of H, which of the following is false?

A - G\$F*E@D%C\$H*A

B - F*D\$E&B%G\$H\$A%C

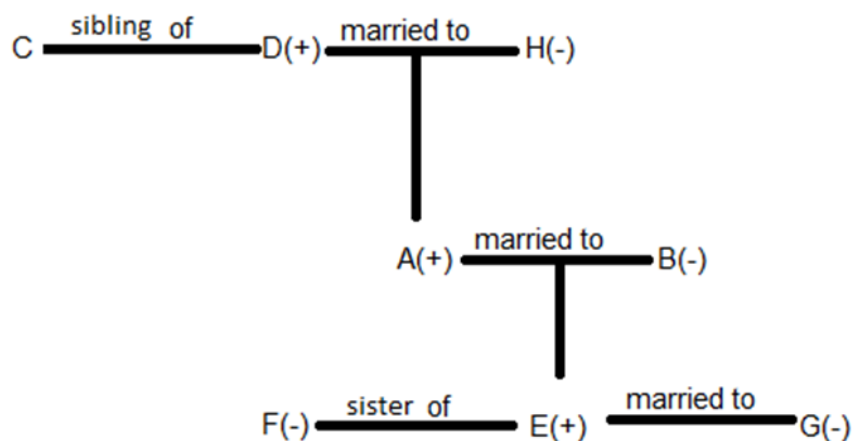
C - Both (a) and (b)

D - G%E\$F&B%A@H%D\$C

E - None of these

Solution

The final arrangement is as follows:



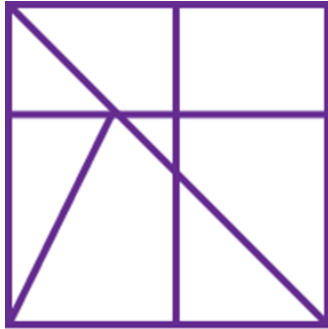
Here, F is not the niece of H.

Hence, option d.

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5) How many triangles does the figure have?



A - 5

B - 9

C - 7

D - 10

Solution

There are 9 triangles in the figure.

Hence, option b.

6) Select the term that will come next in the given series.

13, 15, 19, 25, 33, 43, ?, ?

A - 55, 69

B - 54, 68

C - 53, 69

D - 57, 67

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Solution

Given series:

13, 15, 19, 25, 33, 43

So, $13+2=15$

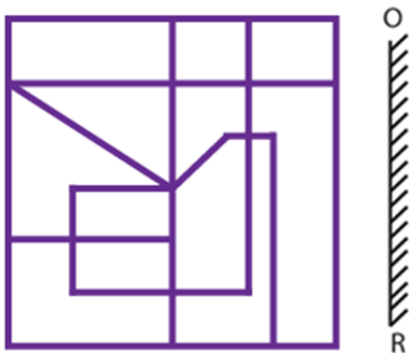
$15+4=19$

$19+6=25$ and so on

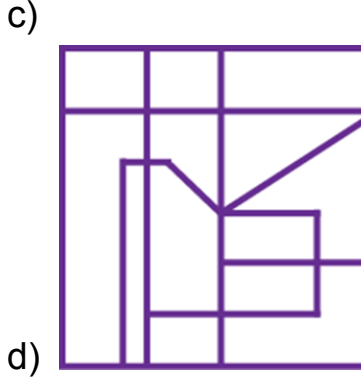
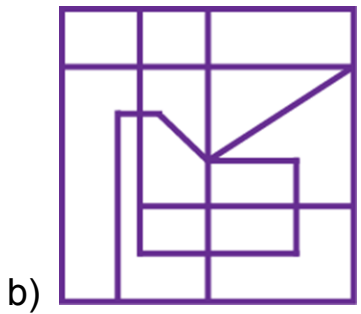
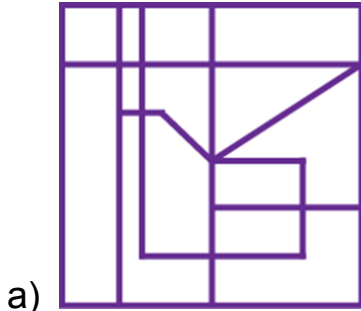
So, $43 + 12 = 55$ and $55 + 14 = 69$.

Hence, option a.

7) If a mirror is placed on the line OR, then which of the answer figures is the right image of the given figure?



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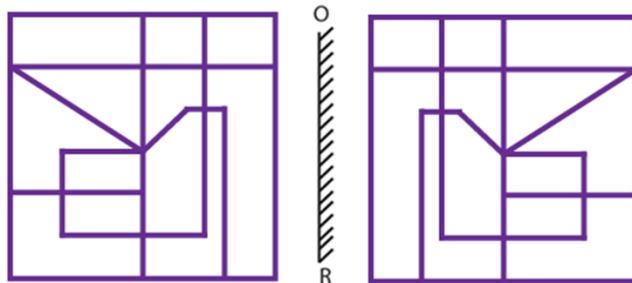


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Correct Choice: c

Solution



Hence, option c.

8) Three statements are given followed by three conclusions numbered I, II, and III assuming the statements to be true, even if they seem to be at variance with commonly known facts. Decide which of conclusions logically follow(s) from the statement.

Statements:

Some apples are bananas.

No bananas are guavas.

Mostly guavas are grapes.

Conclusions:

I. Some grapes are bananas.

II. Mostly guavas are apples.

III. Some grapes are apples.

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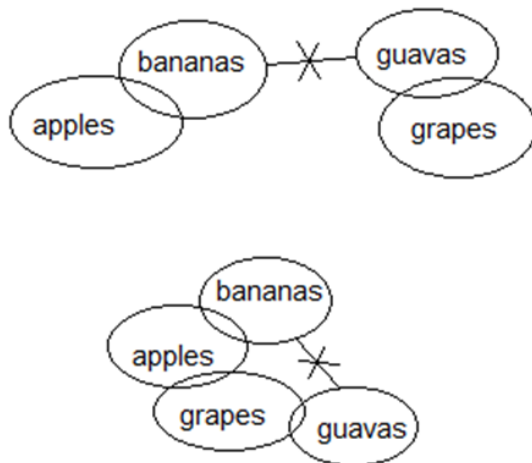


- a) None follows
- b) Only conclusion II follows
- c) Conclusion II and conclusion III follow
- d) Conclusion I and conclusion III follow

Correct Choice: a

Solution

Following figure can be formed from the statements.



None follows.

Hence, option a.

9) Select the letter-cluster that is related to the third letter-cluster in the same way that the second letter-cluster is related to the first letter-cluster.

ADKN : BELO :: FIGJ : ?

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A - GKHK

B - GHHJ

C - GJHK

D - GKLM

Solution

+1 pattern i.e. $A+1=B$, $D+1=E$, $K+1=L$, $N+1=O$.

Similarly, FIGJ : GJHK.

Hence, option c.

10) Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with

commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

No ground is cricket

All cricket are bat

Conclusions:

I. No ground is bat

II. Some bat are not ground

A - Only conclusion I follows

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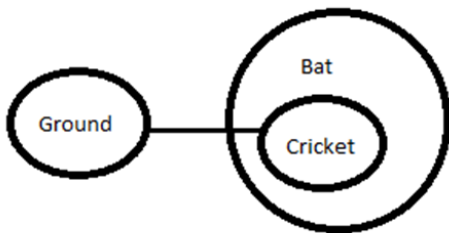
B - Only conclusion II follows

C - Both the conclusions I and II follow

D - Neither conclusion I nor II follows

Solution

Following figures can be formed from the statements:



There is no direct relation between bat and ground so conclusion I does not follow and some bats are not ground so conclusion II follows.

Hence, option b.

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11) Select the missing term from the given alternatives.

5 0	5 9	8 9
3 4	4 0	? ?
1 6	1 9	2 1

A - 76

B - 68

C - 97

D - 77

Solution

$$34 + 16 = 50.$$

$$40 + 19 = 59.$$

$$68 + 21 = 89.$$

Hence, option b.

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12) A is the father of N who is the grandson of D. M is daughter of D. D has only two children and only one of them is married. K is the mother in law of P, who is the wife of A. M has a brother.

How is M related to P?

A - Sister-in-law

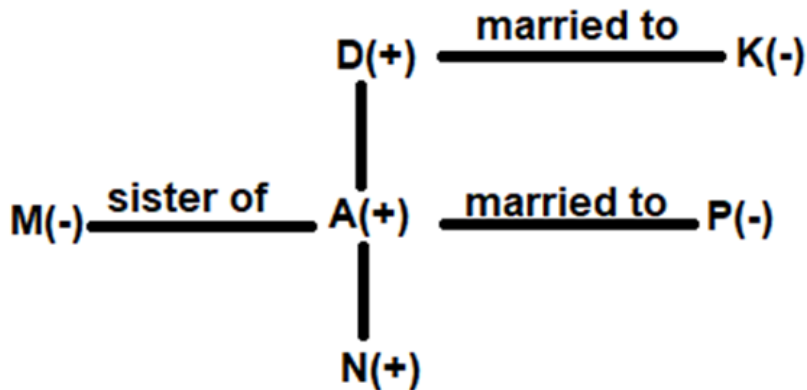
B - Father-in-law

C - Sister

D - Brother

Solution

As M and A are siblings and M is female and P is the wife of A so, M is the sister-in-law of P.



Hence, option a.

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13) A letter series is given below in which some letters are missing. Select the option that gives the letters that can fill these blanks in that order.

q_rs_uu_rrst_uq_rstuu

- a) Rtqur
- b) Qturq
- c) Rsqur
- d) Rtqru

Correct Choice: a

Solution

From option (a),

q r r s t u u / q r r s t u u / q r r s t u u

Hence, option a.

14) Ayush's birthday is on Saturday 29th July. On what day of the week will be Kevin's birthday in the same year if Kevin was born on 12th August?

- A - Sunday
- B - Monday
- C - Saturday
- D - Tuesday

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Solution

Number of days between two dates i.e. 29th July to 12th August = 14 days.

No. of odd days = $14/7$ Remainder = 0

Day on 12th August will be Saturday.

Hence, option c.

(15-17) Ten persons A, B, C, D, E, F, G, H, I and J are sitting in two parallel rows i.e. Row 1 and Row 2. The persons are sitting in row 1 face south and the persons sitting in row 2 face north. Each of them works in different companies viz. Infosys, Wipro, HP, HCL, TCS, Tata, IBM, Samsung, Nokia and LG but not in the same order. The persons sitting in row 1 are sitting exactly opposite to the persons sitting in row 2 and are facing each other. F works in HP and sits at one of the extreme ends. F sits opposite to the one who sits second to the left of J. I does not work in Nokia. E sits opposite to the one who sits second to the right of the one who works in Tata. H works in HCL. E and J are immediate neighbors. J faces south. C sits to the immediate right of the one who works in IBM. I does not work in IBM. Only one person sits between the one who works in Tata and the one who works in HCL. B works in Wipro and sits third to the right of the one who works in Infosys. B sits opposite to C. The one who works in LG sits opposite to G, who works in TCS. A sits opposite to F.

15) Who sits 2nd to the right of D?

- a) The one who works in HP
- b) The one who works in HCL
- c) The one who works in Nokia
- d) The one who works in TCS

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Correct Choice: d

Solution

Starting Point: Start with placing F and J as, F sits opposite to the one who sits 2nd to the left of J which means both J and F are not sitting in the same row.

Clues: E and J are immediate neighbors. J faces south. F works in HP and sits at one of the extreme ends. A sits opposite to F.

Inference: So, E either sits to the right or left of J. So, we have 2 cases.

Case I: When E sits to the left of J in row 1:

Row -1			J	E	A
--------	--	--	---	---	---

Row -2					F(HP)
--------	--	--	--	--	-------

Case II: When E sits to the right of J in row 1:

Row -1		E	J		A
--------	--	---	---	--	---

Row -2					F(HP)
--------	--	--	--	--	-------

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Clues: E sits opposite to the one who sits second to the right of the one who works in Tata. H works in HCL. Only one person sits between the one who works in Tata and the one who works in HCL. B works in Wipro and sits third to the right of the one who works in Infosys. B sits opposite to C. C sits to the immediate right of the one who works in IBM.

Inference: So, case II is rejected because E sits opposite to the one who sits 2nd to the right of the one works in Tata which is not possible in case II. Also, A must be working in Infosys so, that C sits immediate right of the one who works in IBM.

Row -1		B(Wipro)	J	E	A(Infosy)
---------------	--	------------------	----------	----------	------------------

Row -2	(IBM)	C (Tata)		H(HCL)	F(HP)
---------------	--------------	-----------------	--	---------------	--------------

Clues: The one who works in LG sits opposite to G, who works in TCS. I does not work in Nokia. I does not work in IBM.

Inference: So, J must be working in LG so, that G sits opposite to the one who works in LG. Also, E works in Nokia and I works in Samsung.

The final arrangement is as follows:

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Row-1	I(Samsung)	B(Wipro)	J(LG)	E(Nokia)	A(Infosys)
--------------	-------------------	-----------------	--------------	-----------------	-------------------

Row -2	D(IBM)	C(Tata)	G(TCS)	H(HCL)	F(HP)
---------------	---------------	----------------	---------------	---------------	--------------

The one who works in TCS sits 2nd to the right of D.

Hence, option d.

16) Who sits opposite to the one who works in Tata?

- a) I
- b) D
- c) B
- d) F

Correct Choice: c

Solution:

Starting Point: Start with placing F and J as, F sits opposite to the one who sits 2nd to the left of J which means both J and F are not sitting in the same row.

Clues: E and J are immediate neighbors. J faces south. F works in HP and sits at one of the extreme ends. A sits opposite to F.

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Inference: So, E either sits to the right or left of J. So, we have 2 cases.

Case I: When E sits to the left of J in row 1:

Row -1			J	E	A
--------	--	--	---	---	---

Row -2					F(HP)
--------	--	--	--	--	-------

Case II: When E sits to the right of J in row 1:

Row - 1		E	J		A
------------	--	---	---	--	---

Row - 2					F(HP)
------------	--	--	--	--	-------

Clues: E sits opposite to the one who sits second to the right of the one who works in Tata. H works in HCL. Only one person sits between the one who works in Tata and the one who works in HCL. B works in Wipro and sits third to the right of the one who works in Infosys. B sits opposite to C. C sits to the immediate right of the one who works in IBM.

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Inference: So, case II is rejected because E sits opposite to the one who sits 2nd to the right of the one works in Tata which is not possible in case II. Also, A must be working in Infosys so, that C sits immediate right of the one who works in IBM.

Row - 1		B(Wipro)	J	E	A(Infosys)
---------	--	----------	---	---	------------

Row - 2	(IBM)	C (Tata)		H(HCL)	F(HP)
---------	-------	----------	--	--------	-------

Clues: The one who works in LG sits opposite to G, who works in TCS. I does not work in Nokia. I does not work in IBM.

Inference: So, J must be working in LG so, that G sits opposite to the one who works in LG. Also, E works in Nokia and I works in Samsung.

The final arrangement is as follows:

R o w - 1	I(Samsun g)	B(Wipr o)	J (L G)	E (Nok ia)	A(Infos ys)
-----------------------	----------------	--------------	---------------	------------------	----------------

Row - 2	D(IBM)	C (Tata)	G(TCS)	H(HCL)	F(HP)
---------	--------	----------	--------	--------	-------

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B sits opposite to the one who works in Tata.

Hence, option c.

17) Who sits 3rd to the left of the one who works in Samsung?

a) E

b) J

c) F

d) D

Correct Choice: a

Solution

Starting Point: Start with placing F and J as, F sits opposite to the one who sits 2nd to the left of J which means both J and F are not sitting in the same row.

Clues: E and J are immediate neighbors. J faces south. F works in HP and sits at one of the extreme ends. A sits opposite to F.

Inference: So, E either sits to the right or left of J. So, we have 2 cases.

Case I: When E sits to the left of J in row 1:

Row - 1			J	E	A
---------	--	--	---	---	---

Row - 2					F(HP)
---------	--	--	--	--	-------

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Case II: When E sits to the right of J in row 1:

Row - 1		E	J		A
---------	--	---	---	--	---

Row - 2					F(HP)
---------	--	--	--	--	-------

Clues: E sits opposite to the one who sits second to the right of the one who works in Tata. H works in HCL. Only one person sits between the one who works in Tata and the one who works in HCL. B works in Wipro and sits third to the right of the one who works in Infosys. B sits opposite to C. C sits to the immediate right of the one who works in IBM.

Inference: So, case II is rejected because E sits opposite to the one who sits 2nd to the right of the one works in Tata which is not possible in case II. Also, A must be working in Infosys so, that C sits immediate right of the one who works in IBM.

Row - 1		B(Wipro)	J	E	A(Infosys)
---------	--	----------	---	---	------------

Row - 2	(IBM)	C (Tata)		H(HCL)	F(HP)
---------	-------	----------	--	--------	-------

Clues: The one who works in LG sits opposite to G, who works in TCS. I does not work in Nokia. I does not work in IBM.

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Inference: So, J must be working in LG so, that G sits opposite to the one who works in LG. Also, E works in Nokia and I works in Samsung.

The final arrangement is as follows:

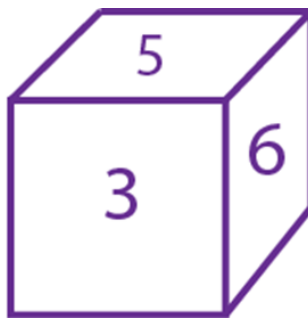
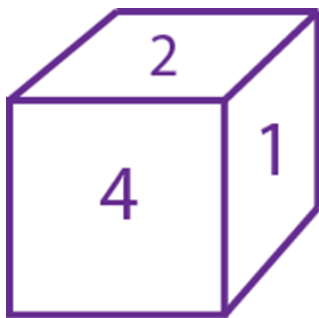
Row - 1	I(Samsung)	B(Wipro)	J (LG)	E (Nokia)	A(Infosys)
---------	------------	----------	--------	-----------	------------

Row - 2	D(IBM)	C (Tata)	G(TCS)	H(HCL)	F(HP)
---------	--------	----------	--------	--------	-------

E sits 3rd to the left of the one who works in Samsung.

Hence, option a.

18) Two positions of the same dice are given, which of the following number will be opposite to 6?



A - 5

B - 4

C - 1

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D - Cannot be determined

Solution

The number opposite to 6 is not determined.

Hence, option d.

19) Three of the following four numbers are alike in a certain way and one is different.

A - 14

B - 16

C - 17

D - 20

Solution

Except (c), all are even numbers.

Hence, option d.

20) In a code language, 'APPLICATION' is coded as 'KJRNCFPMKRC' and 'CELEBRATION' is coded as 'DCNCEUPMKRC', then how will 'SUBTRACTION' be coded as?

A - TRDUSPDMKRE

B - TRDSUDPMKRE

C - TRSDPDMKRED

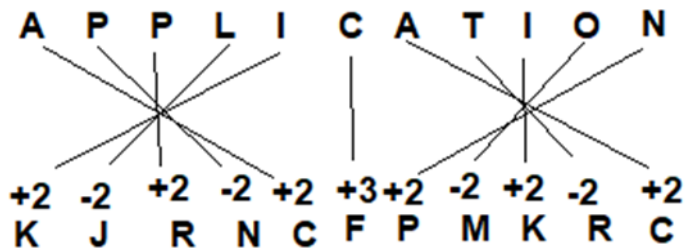
D - TERSPDMKREF

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Solution

The following figure shows the pattern:



Similarly, SUBTRACTION will be coded as 'TRDSUDPMKRE'.

Hence, option b.

Quantitative

1) An article is marked up by 120% above its cost price and then sold for Rs. 1320 after giving 20% discount. Find the cost price of the article.

- a) Rs. 600
- b) Rs. 750
- c) Rs. 960
- d) Rs. 840

Correct Choice: b

Solution

Let the cost price of the article be Rs. 'x'

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According to the question,

$$2.2 \times 0.8x = 1320$$

$$\text{Or, } x = 1320/1.76 = \text{Rs. } 750$$

Hence, option b.

2) A person sells an article at 12% loss. If he had purchased the article for 20% less and sold it for Rs. 24 more, then he would have gained 12%. Find the original cost price of the article.

A - Rs. 2500

B - Rs. 1800

C - Rs. 1200

D - Rs. 1500

Solution

Let the cost price of the article be Rs. 'x'

Therefore, selling price of the article = Rs. $0.88x$

The new cost price of the article be Rs. $0.80x$

Therefore, new selling price of the article = Rs. $0.896x$

According to the question,

$$0.896x - 0.88x = 24$$

$$\text{Or, } 0.016x = 24$$

$$\text{Or, } x = 24/0.016 = \text{Rs. } 1500$$

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Hence, option d.

3) The altitude of an equilateral triangle is $5\sqrt{3}$ cm. Find the area of the equilateral triangle.

A - $32\sqrt{3}$ cm²

B - $25\sqrt{3}$ cm²

C - $30\sqrt{3}$ cm²

D - $18\sqrt{3}$ cm²

Solution

Let each side of the equilateral triangle be 'a' cm

Therefore, $(a^2 - a^2/4) = (5\sqrt{3})^2$

Or, $3a^2/4 = 75$

Or, $a^2 = 100$

Or, $a = 10$ cm

Or, area of the equilateral triangle = $(\sqrt{3} \times 100)/4 = 25\sqrt{3}$ cm²

Hence, option b.

4) . If $1/(\operatorname{cosec}x - 1) + 1/(\operatorname{cosec}x + 1) = 2\operatorname{sec}x$, then find the value of $\tan x + \operatorname{cosec}x$.

A - $1/\sqrt{2}$

B - $(1 + \sqrt{2})$

C - $(1 + 2\sqrt{2})$

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$$D - (\sqrt{2} + 2\sqrt{2})$$

Solution

Given,

$$1/(\operatorname{cosec}x - 1) + 1/(\operatorname{cosec}x + 1) = 2\sec x$$

$$\text{Or, } 2\operatorname{cosec}x/(\operatorname{cosec}^2x - 1) = 2\sec x$$

$$\text{Or, } 2\operatorname{cosec}x/\cot^2x = 2\sec x$$

$$\text{Or, } \tan x = 1$$

$$\text{Or, } \tan x = \tan 45^\circ$$

$$\text{Or, } x = 45^\circ$$

$$\text{Therefore, } \tan x + \operatorname{cosec}x = \tan 45^\circ + \operatorname{cosec}45^\circ = (1 + \sqrt{2})$$

Hence, option b.

5) Amar is 4 times more efficient than Amish. Both working together can complete the work in 12 days. Find the number of days taken by Amar to complete the work alone.

a) 16 days

b) 15.8 days

c) 12.5 days

d) 14.4 days

Correct Choice: d

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Solution

Let the efficiency of Amish be x units/day

Therefore, efficiency of Amar = $4x + x = 5x$ units/day

Total work = $(5x + x) \times 12 = 72x$ units

Time taken by Amar to complete the whole work alone = $72x/5x = 14.4$ days

Hence, option d.

7) In a bag there are coins of Rs. 1, Rs. 2, 25 paise and 50 paise in the ratio 4:2:5:3, respectively. If the total amount in the bag is Rs. 172. Find the difference between the number of Rs. 1 coins and 50 paise coins.

- a) 16
- b) 12
- c) 18
- d) 14

Correct Choice: a

Solution

Let the number of coins of Rs. 1, Rs. 2, 25 paise and 50 paise be $4x$, $2x$, $5x$ and $3x$ respectively

According to the question,

$$4x + (2 \times 2x) + (5x/4) + (3x/2) = 172$$

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$$\text{Or, } 16x + 16x + 5x + 6x = 172 \times 4$$

$$\text{Or, } x = (172 \times 4)/43$$

$$\text{Or, } x = 16$$

$$\text{Required difference} = (4x - 3x) = x = 16$$

Hence, option a.

8) If $(17/6) + (3x - 14/3) = 5x/2$, then find the value of 'x'.

a) $11/3$

b) $16/3$

c) $17/6$

d) None of these

Correct Choice: a

Solution

According to the question,

$$\{(5x/2) - 3x\} = (17/6) - (14/3)$$

$$\text{Or, } x = 11/3$$

Hence, option a.

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9) Two cyclists 'A' and 'B' are coming towards each other with a speed of 25 km/hr and 30 km/hr. If both of them meet after 48 minutes after starting and both start at the same time, then find the distance between them at the time they start.

- a) 38 km
- b) 36 km
- c) 42 km
- d) 44 km

Correct Choice: d

Solution

Required distance = $(25 + 30) \times (48/60) = 44$ km

Hence, option d.

10) If 3889y8916x is divisible by 45, then find the value of $(5x - 2y)$.

- A - 31
- B - 13
- C - 24
- D - 18

Solution

Since, the number is divisible by 45 therefore it has to be divisible by 5 and 9

For the number to be divisible by 5, $x = 0$ or $x = 5$

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For the number to be divisible by 9, the sum of the digits of the number has to be divisible by 9

At $x = 0$ the value of $y = 2$

At $x = 5$ the value of $y = 6$

Therefore, $(5x - 2y) = \{(5 \times 0) - (2 \times 2)\} = -4$

Also, $(5x - 2y) = \{(5 \times 5) - (2 \times 6)\} = 13$

Hence, option b.

11) The 3rd and 7th terms of an arithmetic progression is 143 and 399 respectively. Find its 15th term.

a) 749

b) 865

c) 911

d) 857

Correct Choice: c

Solution

Let the first term and common difference of the series be 'a' and 'd' respectively

According to the question,

$$\{a + (7 - 1)d\} - \{a + (3 - 1)d\} = 399 - 143$$

$$\text{Or, } 4d = 256$$

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Or, $d = 64$

Therefore, $a = 143 - 128 = 15$

Therefore, 15th term of the series = $a + (15 - 1)d = 911$

Hence, option c.

12) The radius of a circular wheel is 3.5 m. The number of revolutions it will make in travelling 11 km is:

A - 600

B - 800

C - 1000

D - 500

Solution

Circumference of the circular wheel = $2 \times \frac{22}{7} \times 3.5 = 22$ m

The number of revolution = $11000/22 = 500$

Hence, option d.

13) 84 is divided into two parts in such a way that $(1/5)^{\text{th}}$ of the first and $(1/6)^{\text{th}}$ of the second are in the ratio 3:1, respectively. Find the first part.

A - 60

B - 24

C - 50

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D - 64

Solution

Let the first part = x

Second part = $84 - x$

According to the question,

$$(x \times 1/5):(84 - x)/6 = 3:1$$

$$x/5 = (84 - x)/6 \times 3$$

$$2x = 420 - 5x$$

$$7x = 420$$

$$x = 60$$

First part = 60

Hence, option a.

14) The average of 12 numbers is 30. The average of first 7 numbers is 24 and that of the last 4 numbers is 36. What is the 8th number?

A - 40

B - 36

C - 56

D - 48

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Solution

Sum of 12 numbers = $12 \times 30 = 360$

Sum of first 7 numbers = $7 \times 24 = 168$

Sum of last 4 numbers = $4 \times 36 = 144$

8th number = $360 - 168 - 144 = 48$

Hence, option d.

16) There is a hollow cylinder of height 4 m and radius equals to 14 cm. Some amount of metal is coated on its outer side such that the thickness of metal coated is 7 cm. If the weight of 1 cm³ of the metal is 3.5 gm, then find the weight of the metal coated

A - 1136 kg

B - 1078 kg

C - 1048 kg

D - 1186 kg

Solution

Inner radius of the cylinder (r) = 14 cm

Outer radius of the cylinder (R) = $(14 + 7) = 21$ cm

Height of the cylinder (h) = 4 m = 400 cm

Volume of the metal used = $\pi(R^2 - r^2)h = \pi(21^2 - 14^2) \times 400 = 98000\pi$ cm³

Therefore, weight of the metal coated = $98000\pi \times 3.5 = 1078$ kg

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Hence, option b.

17) Point (2, -1) is midpoint of points A(x, -6) and B(-3, y). Find the value of (x + y).

- a) 11
- b) -9
- c) 15
- d) -14

Correct Choice: a

Solution

According to the question,

$$\{x + (-3)\}/2 = 2$$

$$\text{Or, } x = 4 + 3 = 7$$

$$\text{Also, } (-6 + y)/2 = -1$$

$$\text{Or, } y = -2 + 6 = 4$$

$$\text{Therefore, } (x + y) = 11$$

Hence, option a.

18) The number of employees in a company is 240 and the number of male employees in the company is 45%. If 25% of the male employees and 50% of the female employees are married, find the number of employees that are not married.

A - 147

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B - 156

C - 162

D - 178

Solution

Total employees in the company = 240

Male employees in the company = $240 \times 45\% = 108$

Female employees in the company = $240 \times 55\% = 132$

Male employees that are married = $108 \times 25\% = 27$

Male employees that are not married = $108 \times 75\% = 81$

Female employees that are married = $132 \times 50\% = 66$

Female employees that are not married = $132 - 66 = 66$

Required number of employees = $66 + 81 = 147$

Hence, option a.

19) If the 8-digit number 5963x55y is divisible by 72, then the value of $(8x - 2y)$ is:

A - 4

B - 6

C - 8

D - 5

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Solution

If a number is divisible by 72 so it should be divisible by 8 and 9 together.

Last 3 digits should be divisible by 8.

So $y = 2$

Sum of the digits of the number should be divisible by 9.

$$(5 + 9 + 6 + 3 + x + 5 + 5 + 2)/9 = (35 + x)/9$$

So, $x = 1$

$$\text{Required value} = (8 \times 1 - 2 \times 2) = 4$$

Hence, option a.

20) The ratio of the length to breadth of a rectangular field is 7:4, respectively. If the total cost of fencing at the rate of Rs. 2.5/m is Rs. 550, then find the area of the field.

a) 56 dam²

b) 28 m²

c) 28 dam²

d) None of these

Correct Choice: c

Solution

Let the length and breadth of the rectangular field be $7x$ metres and $4x$ metres respectively

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Therefore, $2(7x + 4x) = 550/2.5$

Or, $x = 220/22 = 10$ metres

Therefore, area of the field = $7x \times 4x = 2800 \text{ m}^2 = 28 \text{ dam}^2$

Hence, option c.