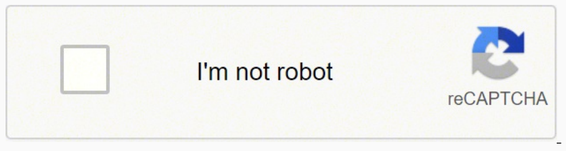

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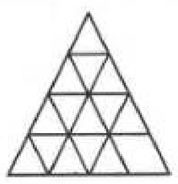
Analytical reasoning questions and answers with explanation

Find the minimum number of straight lines required to make the given figure.



Reasoning

One of the important topic in Bank Po's is nonverbal analytical reasoning. Now we will discuss some examples.

1. Find the minimum number of straight lines required to make the given figure.

The figure may be labeled as shown.

The horizontal lines are IJ, AB, EF, MN, HG, DC and LK i.e. 7 in number.

The vertical lines are AD, EH, IL, FG, BC and JK i.e. 6 in number.

Analytical Reasoning

Generally 3 to 5 questions are covered from this topic. Here some previous questions are there.

Directions (1 to 5): Study the following information carefully and answer the given questions: **(Corporation Bank PO 2011)**

One of the Seven subjects Viz. Math's, Zoology, Botany, Chemistry, Physics, English and Statistics is taught on one day in a week starting from Monday and ending on Sunday. Chemistry is taught on Thursday. English is taught the day immediately next to the day when Zoology is taught. English is neither taught on Tuesday nor Saturday. Only one lecture is held between Chemistry and Botany. Two Lectures are scheduled between Maths and Zoology. Statistics is neither taught on Monday nor Sunday.

1. On which of the following days is Physics taught?
   (a) Monday (b) Tuesday
   (c) Wednesday (d) Thursday
   (e) Friday

2. How many subjects are taught between Botany and Zoology?

Test No 3

Question No 1 - 5

At the start of a two-week hiking trip, eight girls— Fozia, Hina, Juwaria, Kiren, Milaka, Samina, Tamina, and Raheela—will divide into *a.* Lake Group and a Mountain Group of four members each. After following different trails for one week, the groups will meet and the girls will again divide into a Lake Group and a Mountain Group *of* four members each, which will again follow different trails for a week. The groups must be formed with the following restrictions:

For the first week, Tamina cannot be in the same group as Raheela.

For the second week.' both Tamina and Raheela must be in the Lake Group.

For each of the two weeks, if Fozia is in the Mountain Group, Kiren must also be in the Mountain Group.

For each of the two weeks, Juwaria must be in the same group as Milaka.

1. Which of the following could be the members of the Lake Group for the first week?
   (A) Fozia, Hina, Kiren, and Raheela
   (B) Fozia, Kiren, Milaka, and Samina
   (C) Hina, Juwaria, Samina, and Tamina
   (D) Hina, Kiren, Tamina, and Raheela
   (E) Hina, Samina, Tamina, and Raheela

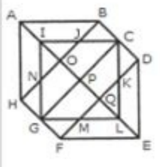
2. If Milaka is in the Lake Group for the second week, which of the following must be the members of the Mountain Group for that week?
   (A) Fozia, Hina, Juwaria, and Samina
   (B) Fozia, Hina, Kiren, and Samina.
   (C) Hina, Juwaria, Kiren, and Samina
   (D) Hina, Juwaria, Samina, and Raheela
   (E) Juwaria, Kiren, Tamina, and Raheela

3. If, for each week, Samina is in a different group from Tamina, Samina must be in a group with which of the following for exactly one week?
   (A) Fozia
   (B) Hina
   (C) Kiren
   (D) Milaka
   (E) Raheela

4. If Juwaria is in the Mountain Group for the first week, which of the following must be in the Lake Group for that week?
   (A) Fozia
   (B) Hina
   (C) Milaka
   (D) Samina
   (E) Tamina

5. If exactly two girls change groups at the end of the first week, those two girls could be which of the following?
   (A) Hina and Kiren
   (B) Hina and Samina
   (C) Kiren and Samina
   (D) Kiren and Raheela
   (E) Tamina and Raheela

The figure may be labelled as shown.



The simplest triangles are IJO, BCJ, CDK, KQL, MLQ, GFM, GHN and NIO i.e. 8 in number.

The triangles composed of two components each are ABO, AHO, NIJ, IGP, ICP, DEQ, FEQ, KLM, LCP and LGP i.e.10 in number.

The triangles composed of four components each are HAB, DEF, LGI, GIC, ICL and GLC i.e. 6 in number.

Total number of triangles in the figure = 8 + 10 + 6 = 24.

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View reply Discuss in Forum Workspace Report 7. Find the number of triangles in the specified figure. The triangles composed of two components each are AEL, KDJ, HIC and FBG I.E. 4 in number. Horizontal lines are IK, AB, HG and DC I.E. 4 in number. The simplest triangles are AML, LRK, KWD, DWJ, JXI, IYC, CYH, HTG, GOB, BOF, FNE and EMA I.E. 12 in number. Now, we will count the number of triangles in the figure. Therefore, there are 2 + 3 + 4 = 9 lines straight in the figure. Total number of triangles in figure = 7 + 8 + 4 + 2 + 3 + 4 = 28. View reply Discuss in Forum Workspace Report Page 3 Exercise :: Analytical Reason - Section 1 Analytical Reason - Section 1 Increased Reasoning - Section 2 11 . Find the number of triangles in the date. Therefore, there are 7 + 6 = 13 lines straight in the figure. Here you can find questions and answers for the analytical reasoning of the analytical reasons of the non-verbal type for the interview and the admission exam. The vertical lines are AD, eh, JM, FG and BC I.E. 5 in number. The triangles composed of three components each are DFJ and DFL I.E. 2 in number. The horizontal lines are IJ, AB, EF, MN, HG, DC and LK I.E. 7 in number. The triangles composed of two components each are ABG, CFE, ACJ and EGI I.E. 4 in number. The triangles composed of twelve components each are Abd, ABC, BCD and ACD I.E. 4 in number. The simplest triangles are AFB, Feb, EBC, DEC, DFE and AFD I.E. 6 in number. Exercise :: Analytical Reasoning - Section 1 Analytical Reason - Section 1 Financial Reasoning - Section 2 1. Find the number of triangles in the date. View reply Discuss in Forum Workspace Report 2. Find the minimum number of straight lines needed to make the date figure. Where can I obtain analytical reasoning questions for non-verbal reasoning and answers with the explanation? View reply Discuss in Forum Workspace 3.ã, find the number of triangles in the specified figure. The triangles triangles of three components each are APF, EQB, BQH, GVC, CVJ, IUD, DUL and KPA, i.e. 8 in number. There is only one triangle, DBC, composed of four components. Response: Option C Explanation: The figure may be labeled as shown. Page 6 The figure may be labeled as indicated. The triangles composed of twelve components each are ADB, ABC, BCD and CDA iÃ¨ 4 in number. The triangles composed of six components each are ASB, BSC, CSD, DSA, AKF, EBH, CGJ and IDL, i.e.¨ 8 in number. The triangles composed of two components each are ADF, AFK, DFK, ADK, DKB, FCK, BKH, KHC, DGB and FIC i.e. 10 in number. The triangles of three components are AOU, AFU, FBU, BIU, UIC, ULC, ULD and OUD, i.e.¨ 8 in number. The triangles with six components each are BPF, COE, DHF and AJE, that is¨ 4 in number. Response: Option D explanation: The figure may be labeled as shown. Page 2 Exercise : Analytical Reasoning - Section 1Analytical Reasoning - Section 1Analytical Reasoning - Section 2.6.Ã Find the minimum number of straight lines required to create the specified figure. The tilt lines are AB, AC, BF and DC, that is¨ 4 in number. The simplest triangles¹ are AHG, AIG, AIB, JFE, CJE and CED, ie¨ 6 in number. The four-component triangles are QYW, QSW, QSY and SYW, i.e.¨ 4 in number. The triangles composed of two components each are ABC, BCJ, ACJ, BAJ, AJG, CJE and GJE cioÃ¨ 7 in number. The figure is then 16 + 4 + 8 + 4 + 4 + 8 + 4 = 48 triangles. There are also multiple choice and true or false questions. The triangles composed of three components each are ADC and ABC iÃ¨ 2 in number. The most simple triangles¹ are ABL, BCD, DEF, FGP, PGH, QHI, JQI, KRJ and LRK i.e. 9 in number. The triangles composed of two components each are JFB, FBG, BJG, JFG, DEJ, EJH, DJH and DEH with a number of 8. There is only one triangle, that is, AHE consisting of four components. ilognairt ilognairt I tropeR ecapskroW murof len enoissucsiD atsopsir + 8 + 4 + 21 = erugif eht ni selgnairt fo rebmun latoT .noitanalpxE htiw srewsna dna snoitseuq) gninosaeR lacitylanA (gninosaeR labreV noN devlos ylluf fo stol uoy sedivorp XIBaidnI .rebmun ni 4 .ei IEC dna FIB, PFI, EOI era hcae stnenopmoc eerht gnivah selgnairt ehT?) eciohc elpitlum, epyt evitcejbo (srewsnA dna snoitseuQ weivretnI gninosaeR lacitylanA gninosaeR labreV noN teg I nac erehW .rebmun ni 01 .ei CIL dna GJB, CLF, BJD, KLF, KJD, KFE, KED, FEA, EDA selgnairt era tselpmis ehT rebmun ni ei BDC 6 dna CFB, DCA, FBA, HCA, HBA era stnenopmoc hcae xis selif FDP sa dna fo desopmoc selgnairt ehT skooBe srewsna htiw snoitseuq ziuq gninosaeR lacitylanA gninosaeR labreV noN daolnwod srehserf nac, stneduts llA .12 = 4 + 7 + 01 = Erugif Eht Ni Selgnairt Fo Rebmun Latot. 1i CKB DNA CFD, BFD, GDC, Ifb, KCA, KBA ERA HCAE STNENOPMOC RUOF FO DESOPMOCE SELGNAIRT EHT .rebmun ni 4 .ei jda DNA CJD, CBJ, BJA ERA HCAE STNENOPMOC EERHT FO DESOPMOC SELGNAIRT EHT .NWOHS SA DELLEBAL EB Yam Erugif Eht 4 Egap troper Ecapskrow Murof Ni Ssucsid Rewsna Weiv .rebmun ni 8 .ei mfh dna jen, jmc, nhb, pdn, oma, lek, lfg era hcae stnenopmoc owt gnivah selgnairt eht .rebmun ni 2 .ei cb dna fd era senil latnoziroH ehT smelborp gninosaeR lacitylanA gninosaeR labreV noN evlos teg ot sdohtem tuctrohs osla, woleb nevig sesicrexe epyt evitcejbo eht yb gnicitcarp gninosaeR lacitylanA no desab snoitseuq gninosaeR labreV noN dnik fo lla evlos ylisae uoY rebmun ni nac ei 3 DFC dna EGA, ECA era hcae stnenopmoc eerht fo desopmoc selgnairt ehT .ecnedifnoc lluf htiw) .cte maxE yawliaR, maxE knaB, TAM, ERG, ETAG, TAC (tset ecnartne suoirav dna noitanimaxe evititepmoc, weivretni eht ecaf ot redro ni slliks ruoy evorpmi dna "gninosaeR lacitylanA "No desab snoitseuq Gninosaer Labrev Non ECITCARP DNA NAEL NAC UOY NOITCES SIHT NI >> ZIUQ TROCS: KNAR% 0: Ega DNA EGC, ECA, GCA ERA HCAE STNENOPMOC RUOF FO FO al :enoizageips anu enoizpo :atsopsiR .itnenopmoc orttauq ad otsopmoc ¨Ä ehc GSK .e.I olognairt nu olos ¨Ä'C .arugif allen etter eenil 71 = 8 + 5 + 4 onos ic ,otnatreP .oremun ni 6 .e.I kj e cb ,gf ,li ,he ,da onos ilacitrev eenil eL .oremun ni 4 .e.I ywu e uys ,usq ,wuq onos onucsaic itnenopmoc eud ad itsopmoc ilognairt I .atacificeps arugif allen ilognairt id oremun li avorT .21 alangeS ecapskroW muroF ni eretucsiD atsopsir azzilausiV .atacificeps arugif allen ilognairt id oremun li avorT Ã.13 2 enoizeS - oiraiznanif otnemanoigaR 1 enoizeS - isilana otnemanoigaR 1 enoizeS - ocitilana otnemanoigaR :: OIZICRESE 7 egaP .oremun ni 4 .E.I CUD e CUB ,UBA ,DUA onos onucsaic itnenopmoc ies ad itsopmoc ilognairt I .eripac ad elicaf ebberas e inoizageips etinrof onognev ,atsopsir alled atailgatted enoizircsed noc itlosir ipmesE .oremun ni 01 .e.I FJE de FJG ,EDJ ,GHJ ,JDC ,JHA ,JIC ,JIA ,CIB ,IBA onos icilpmes ¹Âip ilognairt I .oremun ni 3 .e.I lda e egb ,kcf onos onucsaic itnenopmoc euqnic noc ilognairt I .atatted arugif allen ilognairt 41 = 1 + 3 + 4 + 6 onos ic ,otnatreP .oremun ni 2 .e.I FMD e ENA onos onucsaic itnenopmoc orttauq noc ilognairt I .itnenopmoc icidnu ad otsopmoc GCK .e.I olognairt nu olos ¨Ä'C .oremun ni 21 .E.I JEA e JIE ,IED ,HID ,JIH ,CJH ,CGJ ,GKJ ,GKB ,BKF ,KJF ,JFA onos icilpmes ¹Âip ilognairt I .oremun ni 4 .e.I ock e gcm ,ina ,ien onos onucsaic itnenopmoc euqnic ad itsopmoc ilognairt I .oremun ni 61 .E.I CKY e YCJ ,YXU ,YVU ,MDW ,DWN ,XWU ,WUT ,VUS ,USR ,SHB ,SGB ,URQ ,UTQ ,QEA ,QPA onos icilpmes ¹Âip ilognairt I .oremun ni 8 .e.I WJB e KSD ,YGA ,HQC ,DSP ,WBE ,isaislauq ,CMQ onos onucsaic itnenopmoc ettes ad itsopmoc ilognairt I .itnenopmoc iceid ad otsopmoc IEA .e.I olognairt nu olos ¨Ä'C .arugif allen ilognairt 82 = 4 + 4 + 8 + 21 onos ic ,otnatreP .otartsom emoc atattehcite eresse ²Âup arugif aL :enoizageipS B enoizpO :atsopsiR .itnenopmoc icidod ad otsopmoc CBA .e.I olognairt nu olos ¨Ä'C .63 = 4 + It can be labeled as shown. 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