

ANALYTICAL REASONING – PRACTICE SHEET

1. Read the information given below and then answer the questions that follow. There is a family of six persons P, Q, R, S, T and U. Their professions are Engineer, Doctor, Teacher, Salesman, Manager and Lawyer.

- (i) There are two married couples in the family.
- (ii) The Manager is the grandfather of U, who is an Engineer
- (iii) R, the Salesman, is married to the lady Teacher
- (iv) Q is the mother of U and T.
- (v) The Doctor, S is married to the Manager.

From the information given in the question it is clear that there is a family tree of three generations.

Family Tree

| | | |
|-----|--------------|-------------|
| 1st | P (Manager) | S (Doctor) |
| 2nd | R (Salesman) | O (Teacher) |
| 3rd | U (Engineer) | T (Lawyer) |

It is clear from the information that two married couples will be (P – S) and (R – Q). Sex of U and T can't be determined from the information.

1. How many male members are there in the family?
A. Two B. Three C. Four D. Data inadequate E. None of these
2. What is the profession of P?
A. Lawyer B. Lawyer or Teacher C. Manager D. None of these E. Cannot be determined
3. Who are the two married couples in the family?
A. PQ and SR B. RU and ST C. PT and SR D. PS and RQ E. None of these
4. How P is related to T?
A. Father B. Grandfather C. Mother D. Grandmother E. Wife

2. Read the given information carefully and then answer the questions based on them: Six members of a family A, B, C, D, E and F are Psychologist, Manager, Advocate, Jeweller, Doctor and Engineer but not in the same order.

- (i) Doctor is the grandfather of F and he is a psychologist
- (ii) Manager D is married to A
- (iii) C, who is a Jeweller, is married to Advocate
- (iv) B is the mother of F and E
- (v) There are two married couples in the family

According to the information given, there are two married couples in the family. One of the two pairs is D (Manager) – A (Doctor) and another would be C (Jeweller) – B (Advocate). E and F would be either of the brother or sister but their sex is unknown. And finally we have the three generations' relationship as under.

| | | | |
|--------------|----------------|------------------|--------------|
| Grandparents | 1st generation | A (Doctor) | D (Manager) |
| Parents | 2nd generation | E (Jeweller) | B (Advocate) |
| Children | 3rd generation | F (Psychologist) | E (Engineer) |

1. What is the profession of A?
A. Manager B. Engineer C. Advocate D. Cannot be determined E. None of these
2. What is the profession of E?
A. Manager B. Psychologist C. Engineer D. Doctor E. None

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3. How is A related to E?

- A. Father B. Grandmother C. Wife D. Grandfather E. None

4. How many male members are there in the family?

- A. Two B. Three C. Four D. Cannot be determined E. None

5. Who are the two couples in the family?

- A. AD and CB B. AB and CD C. AE and DE D. AC and BD E. None of these

3. Read the following information carefully and then answer the questions based on them. In a family of six, there are three men L, M and N and three women R, S and T. The six persons are Architect, Lawyer, CA, Professor, Doctor and Engineer by profession but not in the same order.

- (i) There are two married couples and two unmarried persons
- (ii) N is not R's husband
- (iii) The Doctor is married to a Lawyer. R's grandfather is a Professor
- (iv) M is neither L's son, nor he is an Architect or a Professor
- (v) The Lawyer is T's daughter-in-law.
- (vi) N is T's son and the Engineer's father
- (vii) L is married to the CA

Professor is the grandfather of R therefore, R will be in third generation and professor will be in the first generation. Now it is given that Doctor is married to lawyer and lawyer is T's daughter-in-law. From here it is clear that one of the married couples is Doctor-Lawyer and is in the second generation. T is the wife of the professor in the first generation. From the information (ii) and (vii), we conclude that married couples are L – T and N – R and the final family tree is as follows:

Grandparents 1st generation L (Professor) T (C.A.)
Parents 2nd generation N (Doctor) S (Lawyer)
Children 3rd generation R (Architect) M (Engineer)

1. Who is an Architect?

- A. R B. M C. N D. L E. T

2. Which among the following is the correct pair of married couples?

- A. LS and NT B. LR and NM C. LT and NS D. SM and NR

3. How T is related to M?

- A. Mother B. Grandmother C. Wife D. Daughter E. Daughter-in-law

4. Who among the following are two unmarried persons?

- A. L, S B. L, M C. L, T D. R, M

4. Study the following information carefully and then answer the questions given below it:

- (i) Six persons P, Q, R, S, T and U are residing in the same apartment
- (ii) Out of six persons, three are Judges, one Painter and one Dramatist
- (iii) In the group, there are two married couples. No male member in the group is a Painter or a Dramatist
- (iv) U is in his old age and he lives with his married son R
- (v) Among the three Judges, husband of S, with whom his old aged father lives, earns more than T, who in turn gets more pay than Q
- (vi) The wife of one of the Judges is a Dramatist
- (vii) The Painter earns less than her husband, who in turn earns the least among the Judges.
- (viii) The Dramatist earns least in the group

Ranking Married Pairs
R – Judge R – S (Dramatist)

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T – Judge

Q – Judge Q – P (Painter)

P – Painter

S – Dramatist

1. Who among the following gets the highest salary?

A. P B. Q C.R D.S E.T

2. Which of the following is one of the married couple?

A. PT B.QS C.RS D.PR E.None of these

3. Which of the following is a pair of female members in the group?

A.PQ B.QR C.RS D.QS E.PS

4. Who is the Dramatist in the group?

A.P B.R C.S D. Cannot be determined E. None of these

5. Who is the husband of Dramatist?

A.U B.Q C.T D.R E. None of these

5. Read the following information carefully and then answer the questions based on them it:

(i) There is a family of six members A, B, C, D, E and F

(ii) There are two married couples in the family and the family members represent three generations.

(iii) Each member has a distinct choice of a colour amongst Green, Yellow, Black, Red, White and Pink.

(iv) No lady member likes either Green or White

(v) C, who likes Black colour, is the daughter-in-law of E

(vi) B is the brother of F and son of D and like Pink

(vii) A is the grandmother of F and F does not like Red

(viii) The husband has a choice for green colour, his wife likes Yellow.

On the basis of information given in the question, the three generation family tree is formed as under.

Grandparents 1st generation Green E-Male A-Female Yellow

Parents 2nd generation Red D-Male C-Female Black

Children 3rd generation White F-Male B- Female Pink

1. Which of the following is the colour preference of A?

A.Red B. Yellow C.Either Yellow or Red D. Cannot be determin E.None of these

2. Which of the following is the colour combination of one of the couples?

A.Yellow-Red B. Green-Black C.Red-Yellow D.Yellow-Green E.None of these

3. Which of the following is one of the married couples?

A.CD B.DA C.AC D. Cannot be determined E.None of these

4. Which of the following is true about F?

A. Brother of B B. Sister of B C. Either sister or brother of B D. Daughter of C E.None of the above

5. How many male members are there in the family?

A. Two B. Three C. Four D. Cannot be determined E. None of these

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6. Study the following information carefully and then answer the questions given below it:

- (i) P, Q, R, S, T and U are six members of a family in which there are two married couples
- (ii) R, a male member, is neither lightest nor the heaviest in the family
- (iii) T is lighter than R, H, P, the grandmother in the family, is the lightest
- (iv) S is the sister of U. Both S and U are heavier than Q
- (v) Q is the mother of S, and heavier than T.

1. Who among the following will be at 2nd place, if all the members in the family are arranged in the descending order of their weights?

- A.S B.P C.R D. Data inadequate E. None of these

2. How is R related to S?

- A. Brother B. Father C. Uncle D. Cousin E. None of these

3. How many female members are there in the family?

- A. Data inadequate B. Two C. Four D. Three E. None of these

4. Which of the following is a pair of married couple?

- A.PS B. QR C. PQ D.QT E. None of these

5. How is T related to U?

- A. Grandfather B. Sister C. Mother D. Data inadequate E. None of these

7. Read the following information carefully and then answer the questions based on it:

- (i) P, Q, R, S, T and U are six members of a family. Out of six members three are male members.
 - (ii) There are two married couples among them
 - (iii) R is the father of P and U, and T is the mother of R
 - (iv) P is the grand-daughter of Q
- From the information it is clear that P and U are brother-sister with parents R – S and grandparents Q – T.

1. How is U related to P?

- A. Sister B. Son C. Daughter D. Father E. None of these

2. How Q is related to U?

- A. Brother B. Grandfather C. Husband D. Data inadequate E. None of these

3. Which of the following pairs is one of the married couples?

- A.TU B.QS C.TQ D.PU E. None of these

4. Which of the following is a group of male members?

- A.Q, S, T B.P, U, Q C.S, R, U D.Q, R, U E. None of these

5. Who is the husband of T?

- A. Q B. R C. U D. Data inadequate E. None of these

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8. Read the following information carefully to answer the questions based on it:

- (i) P, Q, R, S, T and U are six members of a group of which three are male and three are female
- (ii) There are two Engineers, two Lawyers, one Teacher and one Doctor in the group
- (iii) Q, T, P and R are two married couples and no person in the group has the same profession
- (iv) T, a Teacher with blue dress, is married to a male lawyer with brown dress
- (v) Colour of the dresses of both the husbands and that of wives is the same
- (vi) Two persons have blue dress, two have brown and the remaining one each has black and green
- (vii) P is a male Engineer and his sister S is also an Engineer and Q is a Doctor.

From the information (vii), and (iv) it is clear that two married pairs will be P (Male Engineer) – Q (Female Doctor) and T (Female Teacher) – R (Male Lawyer). From this it is clear that both the males P and R like Brown colour and their wives Q and T like Blue colour. Now as given information (vi), it can be concluded that S and U like Green and Black colour but not, respectively.

1. Which of the following is a group of female members?

- A.QSU B.QSR C.QST D.UST E. QTU

2. Who is the wife of P?

- A.R B.T C.S D.Q E. None of these

3. Which of the following is a pair of married ladies?

- A.QT B.PR C.TS D. Data inadequate E. None of these

4. What is the colour of Us dress?

- A.Black B.Green C.Black or Green D.Data inadequate E.None of these

9. Study the following information to answer the questions below it:

- (i) There is a family of six persons representing three generations
- (ii) There are two married couples and both the wives are housewives
- (iii) Pratap, the Lawyer, is father of Prashant and has one grandchild
- (iv) Pooja, the Doctor, is the sister of the Teacher
- (v) Madhu's daughter-in-law Sumati is married to a Teacher
- (vi) Bindu, grand-daughter of one of the housewives is studying in 9th standard.

From the information (iii), it is clear that Pratap (lawyer) and Prashant are grandfather and father respectively in the family. From information (v), we can find that Madhu is the wife of Pratap (Lawyer) and Sumati is the wife of Prashant (Teacher). Pooja is the sister of Prashant and is a Doctor and Bindu is the daughter of Prashant.

1. What is the profession of Prashant?

- A.Student B. Teacher C.Lawyer D.Cannot be determined E.None of these

2. Who among the following is one of the married couples?

- A.Pratap-Bindu B.Madhu-Pratap C.Prashant-Bindu D.Cannot be determined E.None of these

3. How many male members are there in the family?

- A.Two B. Three C. Four D.Cannot be determined E. None of these

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4. Which of the following statements is not true?
- The Doctor is the sister-in-law of the house wife
 - Pratap has two grand children
 - Madhu has one son and one daughter
 - Prashant has two children
 - Sumati has one son and one daughter

5. Who are the children of Madhu?
- Pooja and Prashant
 - Sumati and Pooja
 - Prashant and Sumati
 - Cannot be determined
 - None of these

10. Read the following information carefully and then answer the questions given below it:

- A, B, C, D, E and F are six members of a family
- There are two married couples among them
- C is the mother of A and F
- E is the father of D
- A is the grandson of B
- The total number of female members in the family is three

On the basis of the information given for the questions, we get the family tree as under:

| Relationship | Male | Female |
|---------------|------|--------|
| Grand Parents | E | B |
| Parents D | C | |
| Children | A | F |

- How is F related to A?
 - Brother
 - Daughter
 - Son
 - Mother
 - None of these
- How is B related to F?
 - Sister
 - Grandmother
 - Wife
 - Data inadequate
 - None of these
- Which of the following pairs is one of the married couples?
 - E - F
 - B - D
 - E - B
 - A - F

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E. None of these

4. Who is the wife of E?

- A. B
- B. C
- C. F
- D. Data inadequate
- E. None of these

5. Which of the following is a group of female members?

- A. BDE
- B. AFB
- C. DCF
- D. BCF
- E. None of these

11. Read the following information carefully and then answer the questions given below it:

- (i) A, B, C, D, E and F are members of a club. Each of them plays a different game of Carrom, Chess, Cards, Table Tennis, Badminton and Volleyball
- (ii) D plays Chess and is married to B
- (iii) One out of two couples in the group plays Cards and Table-Tennis
- (iv) No lady plays either Badminton or Volleyball or Chess
- (v) C plays Volleyball and F plays Badminton
- (vi) A is the brother of F

No lady plays either Badminton or Volleyball or Chess. This implies that D, C and F are males. Since A is the brother of F, hence he is a male. Therefore, all the person are related to one another in the following way:

D (Male)Chess -- B (Female)Carrom

A (Male)Either card Or Table Tennis -- E (Female)Either Card Or Table Tennis

F (Male)Badminton -- C (Male)Volley Ball

1. How is F related to E?

- A. Brother
- B. Uncle
- C. Father
- D. Brother-in-law
- E. None of these

2. Who plays Table-Tennis?

- A. C
- B. D
- C. A
- D. B
- E. None of these

3. How many male members are there in the group?

- A. Two
- B. Three
- C. Four

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- D. Data inadequate
- E. None of these

4. Which of the following pairs is a couple?

- A. AE
- B. BE
- C. BF
- D. DE
- E. None of these

5. Which game does B play?

- A. Table-Tennis
- B. Chess
- C. Carrom
- D. Data inadequate
- E. None of these

12. These questions are based on the following information. Read the information and then answer the questions based on it.

- (i) In a family of six person, there are people from three generations. Each person has separate profession and also they like different colours. There are two couples in the family.
- (ii) Mohan is a CA and his wife is neither a Doctor nor likes Green colour
- (iii) Engineer likes Red colour and his wife is a Teacher
- (iv) Mohini is mother-in-law of Savita and she likes the Orange colour
- (v) Deepak is grandfather of Titu, and Titu, who is a principal, like the Black colour
- (vi) Neeru is the granddaughter of Mohini and she likes blue colour. Neeru's mother likes the White colour

Based on the information given, we get the following table:

Grandparents : Deepak (Engg)(Red) Mohini (Teacher)(Orange)

Parents : Mohan (CA) Savita (White)

Children : Titu (Principal) (Black) Neeru(Blue)

1. Who is an Engineer?

- A. Mohini
- B. Savita
- C. Neeru
- D. Cannot be determined
- E. None of these

2. How many ladies are there in the family?

- A. Two
- B. Three
- C. Four
- D. Cannot be determined
- E. None of these

3. Which of the following is the correct pair of two couples?

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- A. Deepak-Mohini and Mohan-Neeru
- B. Mohan-Savita and Titu-Neeru
- C. Mohini-Deepak and Mohan-Savita
- D. Cannot be determined
- E. None of the above

4. Which colour is liked by CA?

- A. Green
- B. White
- C. Either Green or White
- D. Cannot be determined
- E. None of these

5. What is the profession of Savita?

- A. Doctor
- B. Teacher
- C. Engineer
- D. Cannot be determined
- E. None of these

13. Study the following information to answer the questions given below it:

- (i) A, B, C, D, E, F and G are seven members of a family
- (ii) There are two Doctors, two Teachers, two Professors and one Lawyer
- (iii) No lady is either Teacher or Lawyer
- (iv) Teacher's wife is a Professor and Lawyer's wife is also a Professor
- (v) C is the daughter-in-law of F and mother of E
- (vi) B, a Doctor, is son of G, and E, who is not a Professor, is the daughter of Lawyer
- (vii) A's husband is a Teacher and A is the mother-in-law of C and grandmother of B
- (viii) F is the grandfather of B and D.

The information given for the questions suggest that all the seven members belong to three generations in the following way:

1st generation Grand Parents F (Male Teacher) A (Female Professor)
2nd generation Parents G (Male Lawyer) C (Female Professor)
3rd generation Children B (Male Doctor) E (Female Doctor) D (Male Teacher)

1. All the family members belong to how many generations?

- A. Four
- B. Two
- C. Either two or three
- D. Cannot be determined
- E. None of these

2. Which of the following is the profession of D?

- A. Doctor
- B. Professor
- C. Lawyer
- D. Cannot be determined
- E. None of these

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3. How is D related to A?
- Granddaughter
 - Son
 - Grandson
 - Cannot be determined
 - None of these

4. Which of the following is one of the married couple?
- GC
 - FC
 - GA
 - Cannot be determined
 - None of these

5. How many female members are there in the family?
- One
 - Two
 - Three
 - Cannot be determined
 - None of these

14. Study the information given below carefully and then answer the questions that follow: Eight people A, B, C, D, E, F, G and H work in three different companies: X, Y and Z. Out of these two are females who work in different companies and have different specializations. Two of them are specialists in Finance, two in HR, two in Marketing and one each is an Engineer and a Computer Specialist. D, working in a company X has specialized in HR and her friend G, a Finance specialist is working company Z. H, an HR specialist, is working with B, a marketing specialist and does not work in company Y. C is not a Computer specialist. No two people with the same specialization work together. F is a specialist in Marketing working in company Y and his friend, A has specialized in Finance and is working in company X with only another specialist. Not more than three of them work in any Company Z. No female is an Engineer or Computer specialist. The given information can be presented as in the table given below:

| Persons | Company | Sex | Occupation |
|---------|---------|----------------|------------|
| A | X | Male | Finance |
| B | Z | Male or Female | Marketing |
| C | Y | Male | Engineer |
| D | X | Female | HR |
| E | Y | Male | Computer |
| F | Y | Male | Marketing |
| G | Z | Male or Female | Finance |

1. In which company does C work?
- Y
 - Z
 - X
 - Y or Z
 - None of these

2. Who is the computer specialist?

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- A. C
- B. E
- C. H
- D. Data inadequate
- E. None of these

3. Which of the following represents the two females?

- A. DB
- B. DH
- C. DG
- D. Either (1) or (3)
- E. Data inadequate

4. In which two companies do the HR specialist work?

- A. X and Y
- B. Y and Z
- C. X and Z
- D. Data inadequate
- E. None of these

5. Which of the following is the speciality of H?

- A. Marketing
- B. Finance
- C. Computer
- D. Engineer
- E. None of these

15. Read the following information carefully and then answer the questions given below it: A, B, D, F, G, H and K are seven members of a family. They belong to three generations. There are two married couples belonging to two different generations. D is the son of H and is married to K, F is the granddaughter of B. G's father is grandfather of A. B's husband is father-in-law of K. H has only one son. On the basis of information given in the question, a table can be formed as under:

| Member | Sex | Relationship |
|--------|--------|--|
| A | M/F | Child of D and K |
| B | Female | Wife of H |
| D | Male | Son of H and B, Husband of K |
| F | Female | Grand daughter of B and H, Daughter of D and K |
| G | Female | Daughter of B and H, sister of D |
| H | Male | Husband of B |
| K | Female | Wife of D, Daughter-in-law of B and H |

On the basis of the above table two, the married couples are BH and DK. D is the son of B and H and G is daughter of B and H as H has only one son.

1. How is F related to G?

- A. Son
- B. Nephew
- C. Niece
- D. Data inadequate

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- E. None of these
2. Which of the following is the pair of married ladies?
- HK
 - HD
 - KF
 - BF
 - None of these

3. How is K related to G?
- Sister-in-law
 - Sister
 - Niece
 - Data inadequate
 - None of these

4. How many female members are there among them?
- Two
 - Three
 - Four
 - Data inadequate
 - None of these

5. How is H related to B?
- Father
 - Father-in-law
 - Uncle
 - Data inadequate
 - None of these

16. Read the information given below carefully and then answer the questions that follow: From a group of six boys M, N, O, P, Q, R and five girls G, H, I, J, K team of six is to be selected. Some of the criteria of selection are as follows: M and J go together; O cannot be placed with N; I cannot go with J; N goes with H; P and Q have to be together; K and R go together; Unless otherwise stated these criteria are applicable to all the following questions

1. If the team has three girls including J and K, the members of the team other than J and K are:
- GHNH
 - MORG
 - MNOG
 - NHOR
2. If four members are boys, which of the following cannot constitute the team?
- GJMOPQ
 - JKMNOR
 - HJMNPQ
 - JKMPQR

3. If the team consists of two girls and I is one of them, the other members are :

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- A. GMRPQ
- B. KOPQR
- C. HNOPQ
- D. KRMNP

4. If the team has four boys including O and R, the members of the team other than O and R are:

- A. HIPQ
- B. GJPQ
- C. GKPQ
- D. GJMP

5. If both K and P are members of the team and three boys in all are included in the team, the members of the team other than K and P are:

- A. GIRQ
- B. HIRQ
- C. GJRM
- D. IJRQ

17. Read the following information carefully and answer the questions based on them. Five Ships J, K, L, M and N are to be unloaded on 5 consecutive days beginning from Monday to Friday.

- (i) Each ship takes exactly one day to unload
- (ii) K must be unloaded on the day, preceding the day on which M and N are unloaded
- (iii) L can't be unloaded on Tuesday
- (iv) M is 2nd ship to be unloaded after J is unloaded.

1. N can be unloaded on any day of the week except

- A. Monday
- B. Tuesday
- C. Wednesday
- D. Thursday
- E. Friday

2. If L is unloaded immediately after J, which of the following is true?

- A. J is unloaded on Wednesday
- B. K is unloaded on Monday
- C. L is unloaded on Thursday
- D. M is unloaded on Friday
- E. None of the above

3. On which of the following days, any one of the five ships can be unloaded?

- A. Monday
- B. Tuesday
- C. Wednesday
- D. Thursday
- E. Friday

4. If K, M and N are to be unloaded one immediately after the other, the two days on which J can be unloaded are:

- A. Monday and Tuesday
- B. Monday and Friday

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- C. Tuesday and Wednesday
- D. Wednesday and Friday
- E. Thursday and Friday

5. If M is unloaded on Friday, which one of the following is true?

- A. J is unloaded on Wednesday
- B. K is unloaded on Tuesday
- C. L is unloaded on Monday
- D. L is unloaded on Thursday
- E. N is unloaded on Thursday

18. Read the following information carefully and then answer the questions based on them. A combination of three Fabrics is to be chosen out of seven Fabrics – F, G, H, J, K, L and M to decorate the room according to the following conditions:

- (i) If F or G is chosen, the other must also be chosen
- (ii) H and J can't be chosen together
- (iii) Either H or F or both must be chosen

1. If J is chosen, which of the following could also be chosen?

- A. F, G
- B. F, M
- C. G, H
- D. H, K
- E. K, L

2. If K is chosen, which of the following could be chosen?

- A. F, H
- B. F, L
- C. G, H
- D. H, L
- E. L, M

3. Which of the following confirms to the conditions?

- A. F, H, J
- B. F, K, L
- C. G, H, M
- D. M, J, L
- E. H, K, M

19. Read the information given in the following paragraphs and then answer the questions based on them. There are 6 soccer teams A, B, C, D, E and F in the soccer league game. All the 6 teams play each Saturday during the season. Each team must play against each of the other teams once and only once during the seasons.

- (i) Team A plays against team D 1st and team F 2nd
- (ii) Team B plays against team E 1st and team C 3rd
- (iii) Team C plays against team F 1st

-
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1. If D wins 5 games, which of the following must be true?
 - A. A loses 5 games
 - B. A wins 4 games
 - C. A wins its first game
 - D. B loses at least 1 game
 - E. None of these
2. The last set of games could be between
 - A. A and B, C and F, D and E
 - B. A and C, B and F, D and E
 - C. A and D, B and C, E and F
 - D. A and E, B and C, D and F
 - E. None of the above
3. One 1st Saturday, which of the following pairs of teams play against each other?
 - A. A and B, C and F, D and E
 - B. A and B, C and E, D and F
 - C. A and C, B and E, D and F
 - D. A and D, B and C, E and F
 - E. None of the above
4. What is the total number of games that each team must play during the season?
 - A. 1
 - B. 2
 - C. 3
 - D. 4
 - E. None of these
5. Which of the following team must B play second with?
 - A. A
 - B. C
 - C. D
 - D. Either E or A
 - E. Either A or D

20. Read the following information carefully to answer the questions that follow: Nine professors – G, H, I, J, K, L, M, N and O are to appear on a series of three panels. Each panel will consist of three professors and each professor will appear exactly once. The panel must be arranged according to the following conditions:

- (i) I and N must be on the same panel
- (ii) K and L must be on the same panel
- (iii) O and J cannot be on the same panel
- (iv) M must appear on the second panel
- (v) Either J or M or both must appear on the panel with H

1. Which of the following can't be true?

| | |
|---------------------------|---|
| A. I appears on 2nd panel | B. H appears on 3rd panel |
| C. appears on 3rd panel | D. J appears on 1st panel, and H appears on the 3rd |

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E. G appears on 1st panel and K appears on 3rd

2. If J and K appear on the 3rd panel, which of the following professors must appear on 2nd ?

- A. G B. H C. I D. L E. O

3. The 3rd panel could consist of all the following except

- A. K, L, O B. K, L, J C. G, H, J D. G, I, N E. G, J, I

4. Which of the following professors could appear on a panel together?

- A. G, L, O B. G, J, M C. K, I, M D. N, I, J E. O, I, U

5. All the following could appear on the same panel as K, except

- A. G B. I C. J D. M E. O

ANSWER KEY

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1-D | 1-E | 1-A | 1-C | 1-B | 1-D | 1-E | 1-C | 1-B | 1-E |
| 2-C | 2-C | 2-C | 2-C | 2-D | 2-E | 2-B | 2-D | 2-B | 2-B |
| 3-D | 3-D | 3-B | 3-E | 3-A | 3-A | 3-C | 3-A | 3-A | 3-C |
| 4-B | 4-D | 4-D | 4-C | 4-A | 4-E | 4-D | 4-D | 4-E | 4-A |
| | 5-A | | 5-D | 5-B | 5-D | 5-A | | 5-A | 5-D |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 1-D | 1-E | 1-E | 1-A | 1-C | 1-B | 1-A | 1-A | 1-D | 1-D |
| 2-E | 2-D | 2-E | 2-B | 2-E | 2-B | 2-B | 2-D | 2-E | 2-B |
| 3-C | 3-C | 3-C | 3-D | 3-A | 3-B | 3-C | 3-E | 3-E | 3-E |
| 4-A | 4-D | 4-A | 4-C | 4-D | 4-C | 4-A | | 4-E | 4-D |
| 5-C | 5-D | 5-C | 5-E | 5-E | 5-A | 5-A | | 5-E | 5-B |

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