ORDERING & RANKING

- KOUSTAV

CONCEPT

$$5 - 2 + 1 = 4^{th}$$
$$5 - 4 + 1 = 2^{nd}$$
$$2 + 4 - 1 = 5$$

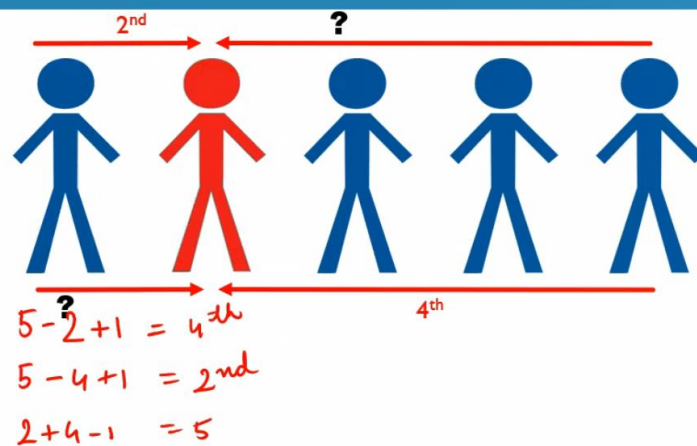**Q2. Sam is 5 ranks ahead of Jon in a class of 46 students. If Jon's rank is twelfth from the last, what is Sam's rank from the start?**

    A. 35   B. 29   ✓ C. 30   D. 31

$$S = J - 5$$
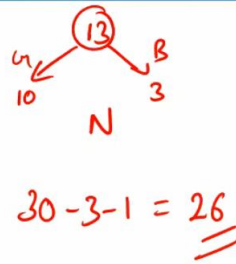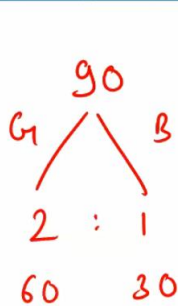$$J = 46 - 12 + 1 = 35^{th}$$
$$S = 35^{th} - 5 = 30^{th}$$

Q3. In a class of 90, where girls are twice that of boys, Neville ranked fourteenth from the top. If there are 10 girls ahead of Neville, how many boys are after him in rank?

    A. 27   B. 26   C. 25   D. 16

90

G / \ B

2 : 1

60   30

(13)

G   B

10   3

N

$$30 - 3 - 1 = 26$$

Q4. Each one of five persons - A, B, C, D and E is of different height. B is taller than A and C. D is not as tall as E but is taller than A, who is not the shortest. Who is the shortest?
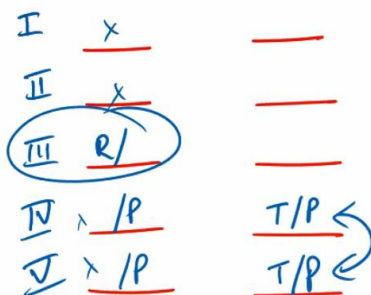
    A. A   B. B   C. C   D. D

E

D B

A (C)

Q5. P, Q, R, S and T are five girls competing in a running race. R and P have at least two girls ahead of each of them. T and P do not have more than one girl behind each of them. Who arrives at the finish line after two girls as well as before two other girls, if no two girls finish the race at the same time?

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

I   x

II   x

(III   R/)
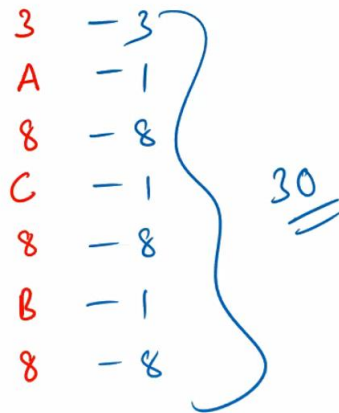
IV   /P   T/P

V   /P   T/P

Q6. A ranks fourth in a class. B ranks ninth from the last. If C is ninth after A and just in the middle of A and B, how many students are there in the class?

    A. 33   B. 32   ✓C. 30   D. 31

```
3    — 3
A    — 1
8    — 8
C    — 1      }  30
8    — 8
B    — 1
8    — 8
```

Q7. Four companies-W, X, Y and Z declared their results for the financial year. No two companies have either the same income or the same profit.
The income of company W is greater than that of X and its profit is less than that of company Y.
The income as well as the profit of company Y is greater than that of company Z.
The company X has the third highest income and its profit is less than that of company Z.
Profit of company X is not as much as that of company W.

1. Which company has the highest income?
A. W   B. X
C. Y   ✓D. Either (A) or (C)

2. Which company is the second highest in profit?
A. W   B. X
C. Y   ✓D. Can't be determined

3. Which company has the least income?
A. W   B. X
✓C. Z   D. Y

```
          I          |     P
      _____
 Y  W   W/Y          |    (Y)
 Z  X   Y/W          |    W/Z        Y
        X            |    Z/W       W Z
        Z            |     X        X  X
```

Q7. Four companies-W, X, Y and Z declared their results for the financial year. No two companies have either the same income or the same profit.
The income of company W is greater than that of X and its profit is less than that of company Y.
The income as well as the profit of company Y is greater than that of company Z.
The company X has the third highest income and its profit is less than that of company Z.
Profit of company X is not as much as that of company W.

4. How many companies have more profit than company X?
A. One   B. Two
✓C. Three   D. Either (A) or (B)

5. If no company has same position in profit and income which company has the second highest income?
A. W   B. X
✓C. Y   D. Can't be determined

DATA ARRANGEMENT (PUZZLES)

- KOUSTAV

Q1. There are four trees - lemon, oak, pine and apple each at different corner of rectangular plot. A well is located at one corner and a cabin at another corner. Lemon and oak tree are on either side of the gate which is located at the center of the side opposite to the side at whose extremes the well and the cabin are located. The pine tree is not at the corner where the cabin is located.

1. Which of the following pairs can be diagonally opposite to each other in the plot?
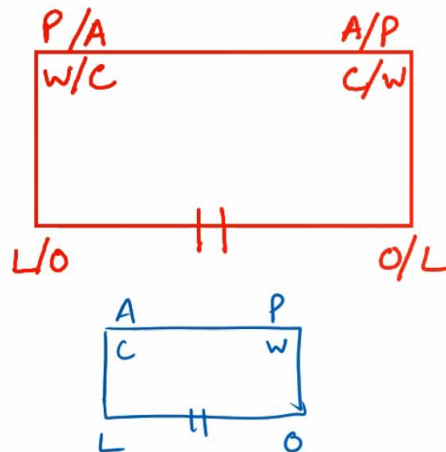- A. Apple tree and lemon tree
- B. Cabin and apple tree
- C. Pine tree and well
- D. Oak tree and lemon tree

2. If the lemon tree is diagonally opposite to the well then oak tree is diagonally opposite to?
- A. Pine tree
- B. Well
- C. Cabin ✓
- D. Gate

3. If oak and apple trees cannot be at adjacent corners of the plot, then which of the following will have to be at diagonally opposite corners of the plot?
- A. Oak tree and well
- B. Lemon tree and cabin
- C. Lemon tree and oak tree
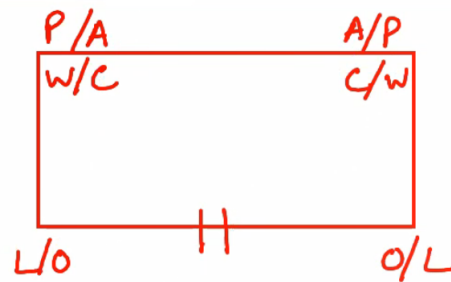- D. Lemon tree and well ✓

Q1. There are four trees - lemon, oak, pine and apple each at different corner of rectangular plot. A well is located at one corner and a cabin at another corner. Lemon and oak tree are on either side of the gate which is located at the center of the side opposite to the side at whose extremes the well and the cabin are located. The pine tree is not at the corner where the cabin is located.

4. Which of the following must be true?
A. Cabin and well are not at adjacent corners.
B. Cabin and oak tree cannot be at adjacent corners.
C. Apple tree and well are at adjacent corners. ✓
D. Apple tree and well are not at adjacent corners.

5. Which of the following is definitely false?
A. Pine tree is adjacent to well at one corner of the plot.
B. Apple tree is adjacent to cabin at one corner.
C. Oak tree is at the adjacent corner to well.
D. Lemon tree is not on the same side of the plot as the gate. ✓

P/A   A/P
W/C   C/W

L/O   O/L

Q2. Each of the five persons Ted, Barney, Marshal, Lilly, Robin is wearing different colored cloths among white, black, brown, indigo and yellow. Ted is wearing neither a black nor a yellow colored cloth. Barney is wearing neither a white colored nor an indigo colored cloth. Marshal is wearing neither an indigo nor yellow colored cloth. If Lilly and Robin are wearing black and indigo colored cloths, then which colored cloth is Barney wearing?
A. Brown   B. Yellow   C. White   D. Cannot be determined

Name	Colours
Ted	XBl XY W/Br
Barn	Xw XI B/Y ✓
M	XI XY W/Br
L	Bl/I
R	I/Bl

Q3. In an apartment of five floors, each floor is owned by a different person among Dia, Divya, Deeksha, Darshan and Deepa. Each floor is painted among different colors among red, orange, blue, white and yellow. Deepa owns the fourth floor and her floor is not painted red. Dia stays in blue colored floor and does not own the fifth floor. Divya owns first floor and is not red colored. Darshan owns a yellow colored floor. Deeksha owns third floor.

1. Which floor does Darshan own?
A. Fifth ✓
B. Fourth
C. Third
D. Second

2. What is the color of fourth floor?
A. Orange
B. Red
C. White
D. White or Orange ✓

3. Which of the following combinations is definitely true? (Floor - Owner - Color)
A. 1-Divya-Orange
B. 2-Dia-Blue ✓
C. 4-Deepa-White
D. More than above

Floor	Name	Colours
5	✗Dia Darsh	✗Bl Y
4	Deepa	✗R w/o
3	Deek	Red
2	Dia	Blue
1	Divya	✗Red o/w

Q4. A team of six professors – Govind, Manoj, Prasad, Arvind, Bharath and Raman are scheduled training. Each professor trains in different areas among - Arithmetic, Logical Reasoning, Pure Maths, English, Current Affairs and Communication Skills on different days among Monday, Tuesday, Wednesday, Thursday, Friday and Saturday of a week. The following information is available about the schedule:

- Training in Pure Maths is scheduled on Tuesday but it is not by Arvind.
- Govind's session is scheduled on Wednesday but not Logical Reasoning.
- The session on Current Affairs and Communication Skills are scheduled on two consecutive days.
- Arvind's session is scheduled on the day immediately after the day on which Manoj's session is scheduled.
- Prasad's session is on English but it is scheduled neither on Monday nor on Saturday.

Days	Prof	Sub
✗ M	B/R	LR
✗ Tue	✗Ar R/B	PM
✗ W	G	✗LR Arth
✓ Thu	P	Eng
✗ F	M	CA/(CS)
✗ Sat	A	CS/(CA)

Q5. The Banerjees, the Sharmas, and the Ramans each have a tradition of eating Sunday lunch as a family. Each family serves a special meal at a certain time of day. Each family has a particular set of chinaware used only for this meal. Use the clues below to answer the following question.

- The Sharma family eats at noon.
- The family that serves fried brinjal uses blue chinaware.
- The Banerjee family eats at 2 o'clock.
- The family that serves sambar does not use red chinaware.
- The family that eats at 1 o'clock serves fried brinjal.
- The Raman family does not use white chinaware.
- The family that eats last likes makkai-ki-roti.

	Time	Food	CW
B	2	MKR	Red
S	12	Sam	W
R	1	FB	xW Bl

Which one of the following statements is true?

A. The Banerjees eat makkai-ki-roti at 2 o'clock, the Sharmas eat fried brinjal at 12 o'clock and the Ramans eat sambar from red chinaware.

B. The Sharmas eat sambar served in white chinaware, the Ramans eat fried brinjal at 1 o'clock, and the Banerjees eat makkai-ki-roti served in blue chinaware.

C. The Sharmas eat sambar at noon, the Ramans eat fried brinjal served in blue chinaware, and the Banerjees eat makkai-ki-roti served in red chinaware.

D. The Banerjees eat makkai-ki-roti served in white chinaware, the Sharmas eat fried brinjal at 12 o'clock and the Ramans eat sambar from red chinaware.