

LOGICAL REASONING

CH-9

Number Series, Coding and Decoding and Odd Man Out

Series $\longrightarrow$ Pattern

~~12~~

Forward + Backward = 27
Position Position

- * Number Series
- Alphabet Series
- Letter Series

Number Series

1. Perfect Square Series
ex: $1^2, 2^2, 3^2, 4^2, \dots$

2. Perfect Cube Series
ex: $1^3, 2^3, 3^3, 4^3, \dots$

3. Difference Series
ex: 3, 5, 7, 9, 11, ...

4. Ratio Series
ex: 2, 4, 8, 16, 32, ...

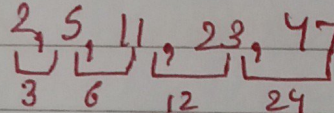
5. Prime Number Series

Ex: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29

6. Mixed Series

Ex: 2, 3, 4, 9, 8, 27, ...

7. Two Tier Series

Ex: 2, 5, 11, 23, 47, ...
Alphabet Series

4 8 12

16 20

24

DHL

PT

X

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q

18	19	20	21	22	23	24	25	26
R	S	T	U	V	W	X	Y	Z

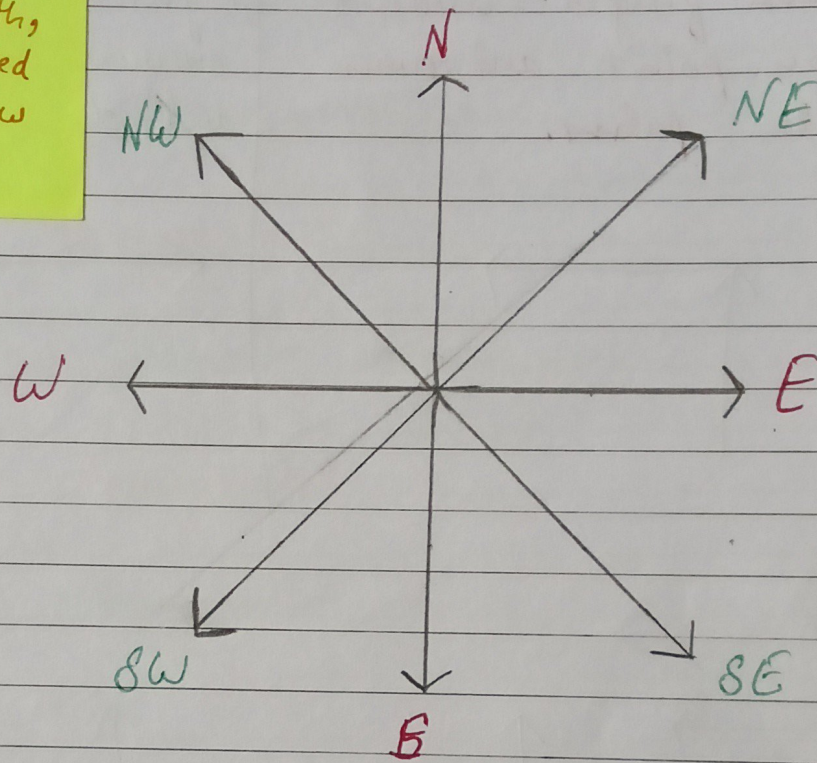
Letter Series

Sunrise $\rightarrow$ East
Shadow point west
(Man facing north,
West is situated to
left. Shadow in left)

Sunset $\rightarrow$ West
Shadow points east
(Man facing North,
East is situated
to right. Shadow
in right)

Unit -10

Direction Sense Test



□ Some Points

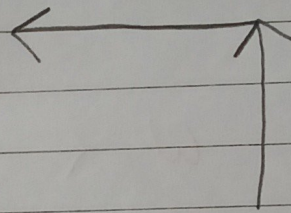
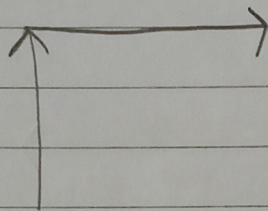
Direction mentioned (given)	Direction indicated
Left + Left	Down
Left + Right	Up
Right + Left	Up
Right + Right	Down
Up + Left	Left
Up + Right	Right
Down + Left	Right
Down + Right	Left

↗ Clockwise
Right hand turn

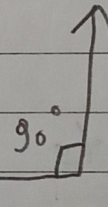
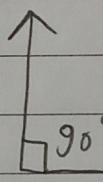
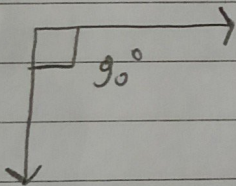
↖ Anticlockwise
Left Hand turn

→ Left hand finger → current direction point and turn towards palm.

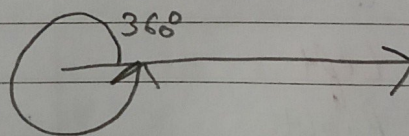
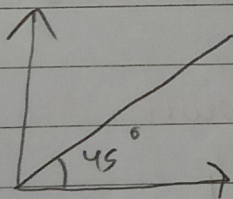
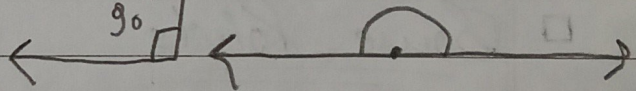
Right hand finger → current direction point and towards palm.



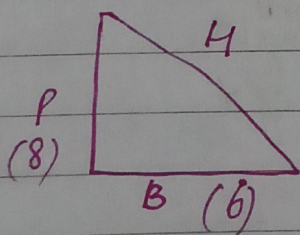
□ Turns



180°



Pythagoras Theorem



$$= H^2 = P^2 + B^2$$

$$H = \sqrt{8^2 + 6^2}$$

$$= \sqrt{64 + 36}$$

$$= \sqrt{100}$$

$$= 10 \text{ m}$$

CH - 11Seating Arrangements

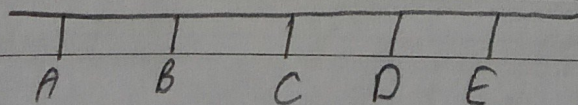
→ Types of Arrangements :

1. Linear Arrangement
2. Two Row Sequence Arrangement
3. Circular Arrangement
4. Polygon Arrangement

→ There will be two types of question of linear arrangement :

- a) When you don't know the direction of facing.
Left — — — — RIGHT
- b) When you know the direction of facing.
(for example - Upward, downward, east, north, south, west)

When direction of facing is not clear, then we take our self as below :-



Now, there are few conclusions which we have to make from above.

1. Immediate left or immediate right
2. To the left or to the right
3. In Between
4. Extremes

□ Some Short Tricks of Words

1. Next to → साथ में
2. Not sitting → साथ नहीं है
3. last end → किसी की आखिरी तरफ
4. If in line two person represented with first person and then it relates to the first one.
Ex: A is on the right of B and C.
Who → Second Person B

Note: there are 3 types of information provided

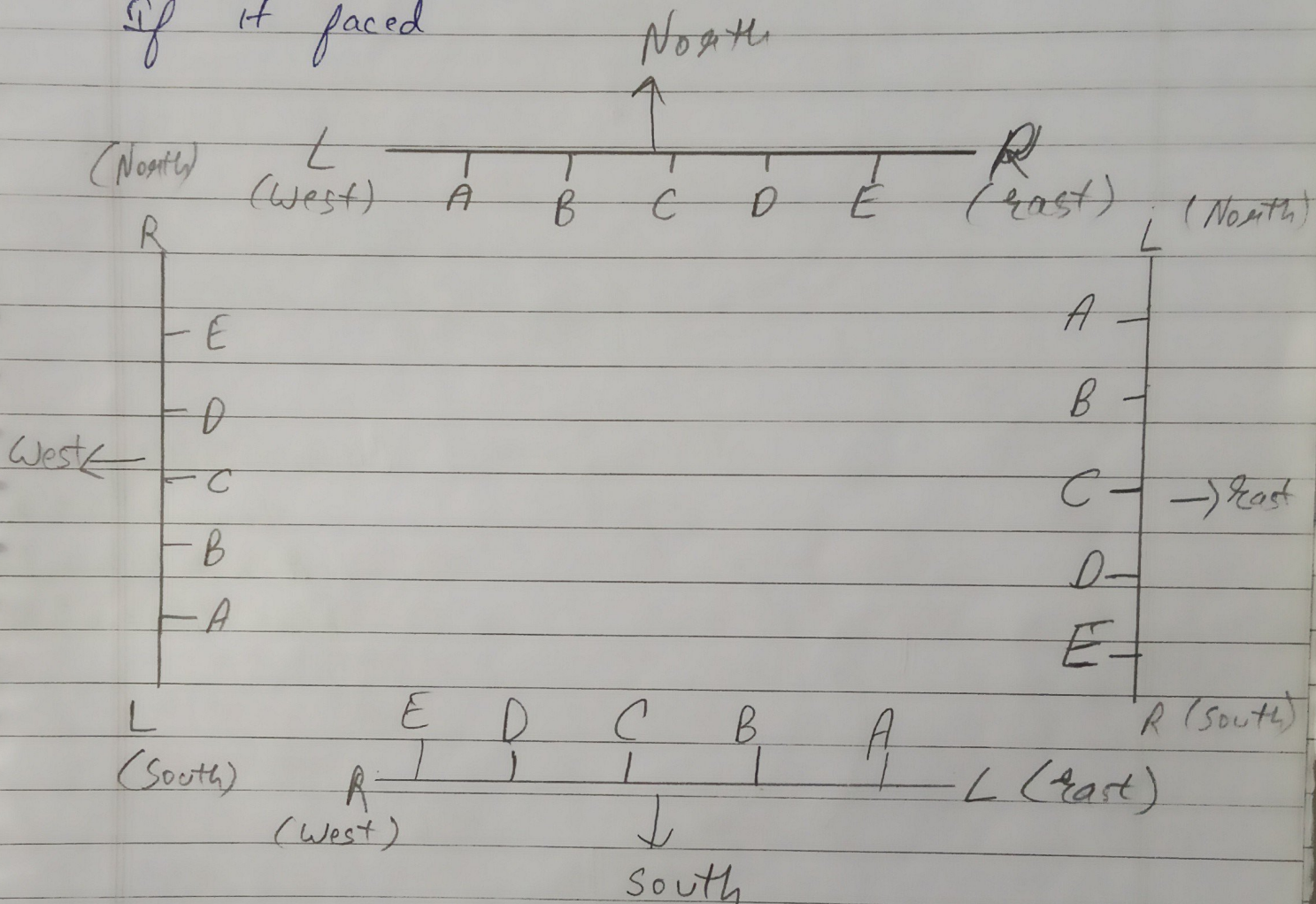
Direct ,

Comparative

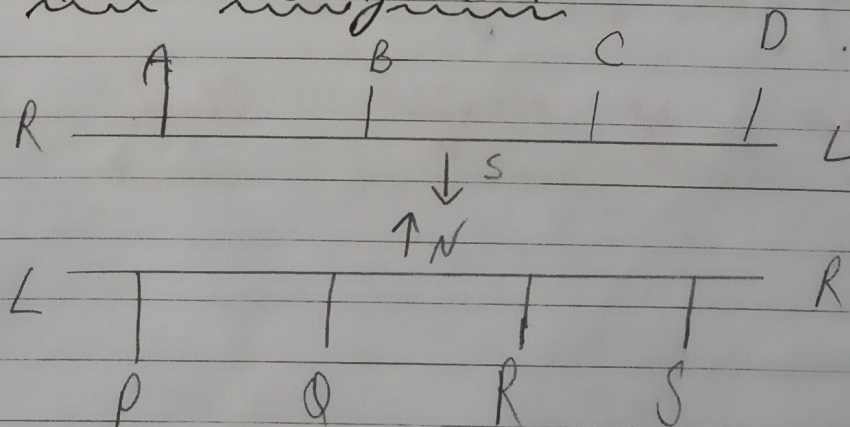
Negative

(b) When you know the direction of facing.
(for example - upward, downward, east, north, south, west etc...)

If it faced



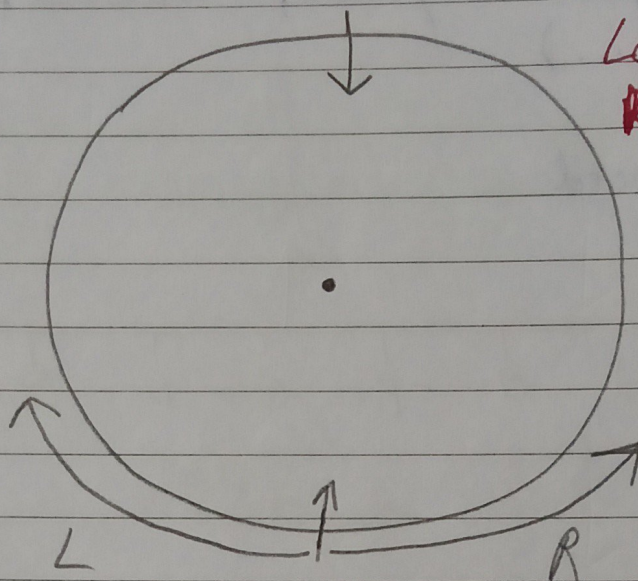
□ Double Row Arrangement



□ Circular Arrangement

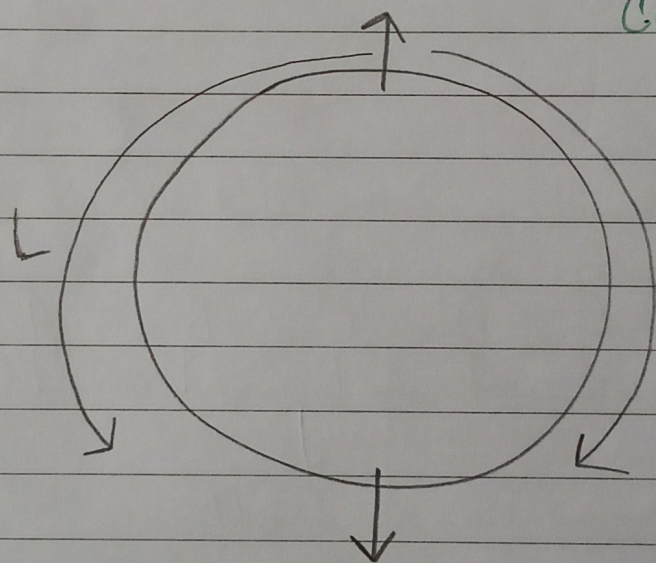
Circle → Looking toward centre.

Left = Clockwise
Right = Anticlockwise



Circle → Looking towards Outside.

Left = Anticlockwise
Right = Clockwise



□ Polygon Arrangement

→ Shape of straight lines.

→ Rule are same as circle

CH. - 12Blood Relations

□ Notations to show the relation.

Male

+

Female

—

One generation gap

|

Same Generation

—

Husband / Wife

=

(i) Relations of Paternal Side:

Father's father → Grandfather

Father's Mother → Grandmother

Father's Brother → Uncle

Father's Sister → Aunt

~~Father's~~

Children of uncle → Cousin

Wife of uncle → Aunt

Children of aunt → Cousin

Husband of aunt → Uncle

(ii) Relations of Maternal Side:

Mother's father → Grandfather

Mother's Mother → Grandmother

Mother's Brother → Uncle

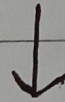
Mother's Sister → Aunt

Children of maternal uncle → Cousin

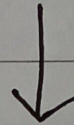
Wife of maternal uncle → Aunty

□ Different Generations Chart

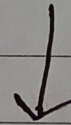
Generation 1 Grandmother, Grandfather,
Maternal " , Maternal "



Generation 2 Mother, Father, Uncle, Aunt
(Both Sides)



Generation 3 Self, Sister, Sister-in-Law,
Brother, Brother-in-Law



Generation 4 Son, Daughter, Nephew, Niece
↓ Boys Girls
बान्धवा
भतीजी

□ Family Tree

