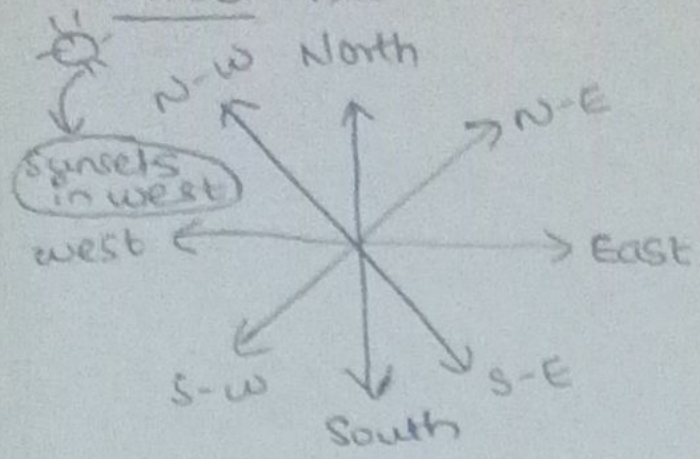
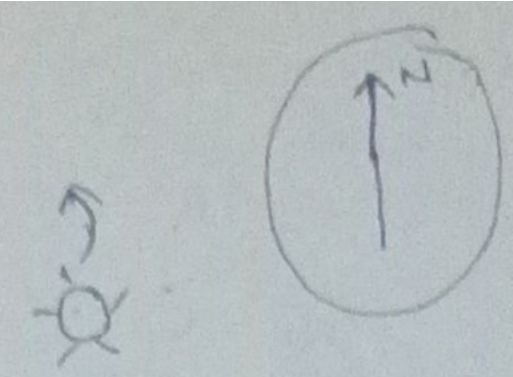
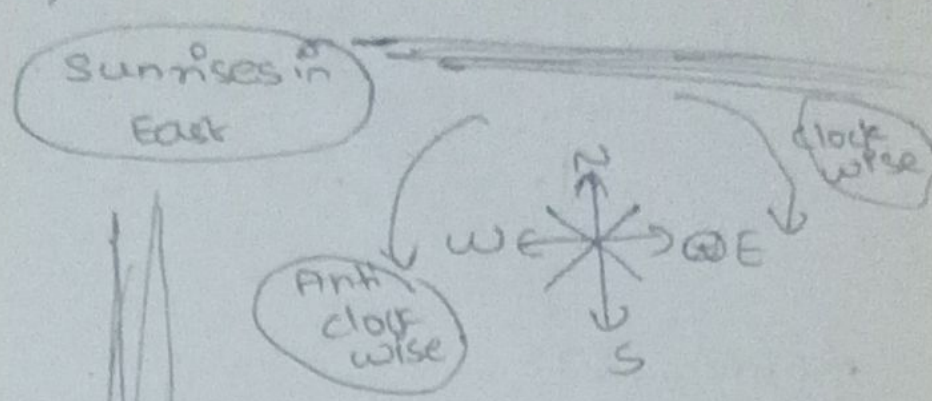
Directions

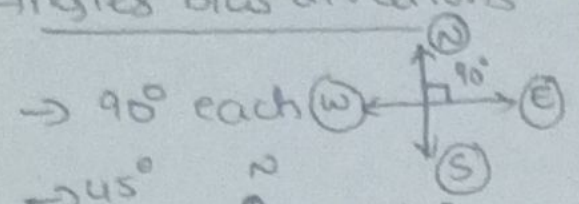




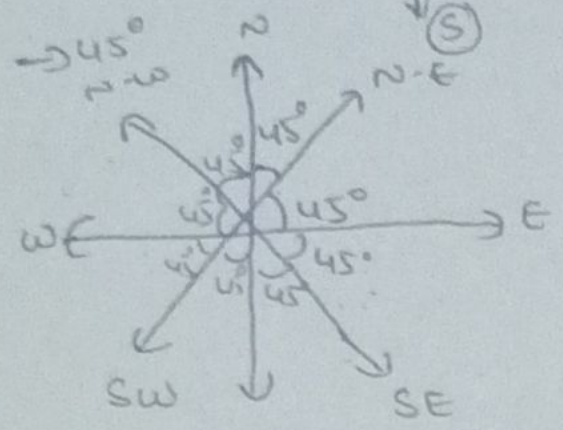


Angles blw directions

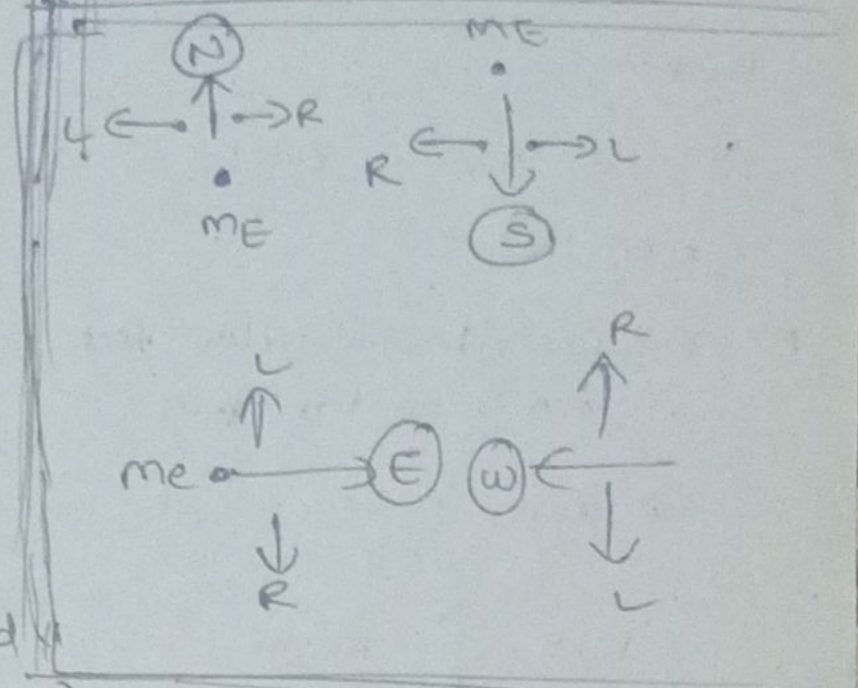
→ 90° each



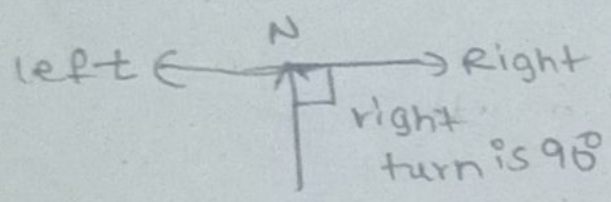
→ 45°

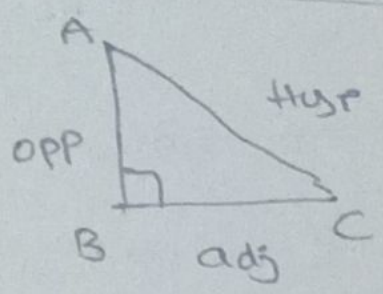


→ Total angle is 360°



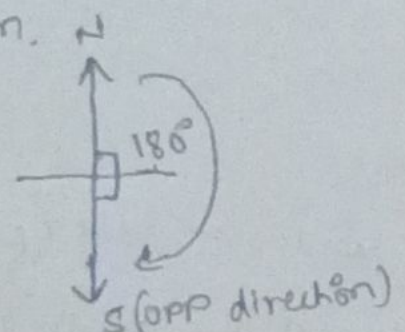
→ If no angle is mentioned then it is 90° (By default)

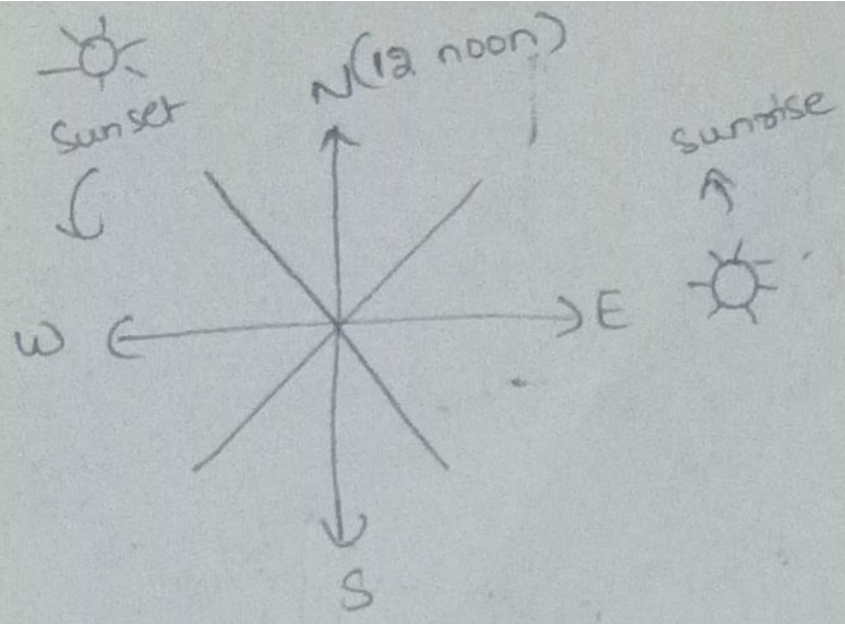




$AC^2 = AB^2 + BC^2$

→ whenever the person makes 180° then the person stands in opposite direction.





Morning (E)

sunrise - shadow - west

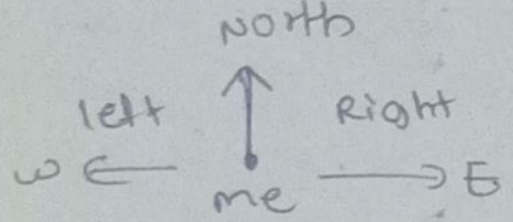
Evening (W)

sunset - shadow - East

12 noon (N)

No shadow - Shadow below feet
Sun is on top of us.

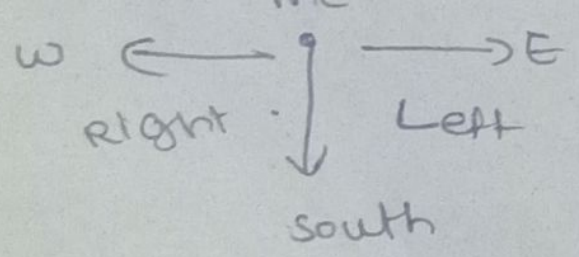
-> If I am facing north.



During sunrise - shadow will be left (W)

During sunset - shadow will be right (E)

-> If I am facing south.



During sunrise - shadow will be left (E)

During sunset - shadow will be Right (W).

Blood Relations

1) Draw Diagram
2) Every generation should be in new row.
(New level)
3) use of symbols.
- female (—) married
- male (↔) sibilings

4) No useless relations like girlfriend, Boyfriend, 2 wives.
5) maya - F/m
we can denote Gender directly based on names
6) you family tree.

Important relations

father of father (or) mother - Gra
mother of father / mother - Grand mo
wife of Grandfather - Grandmo
Husband of Grandmother - Gra
Father-in-law of father/mother - Gra
mother-in-law of mother/father - Gra
Brother of father - Uncle (Paternal)
Sister of father - Aunt (paternal)
SS/Brother of mother - Maternal uncle/m
father of wife/husband - father-
mother of wife/husband - mothe
father's/mother's only son/daug
Son/Daughter of Uncle/Aunt
Brother/sister of husband
Husband of sister/sister - B

sunrise

E

st

no feet

rth.

- Shadow will be left (W)

- Shadow will be right (E)

uth.

E

- Shadow will be left (E)

Shadow will be Right (W).

Blood Relations

1) Draw Diagram
2) Every generation should be in new row. (new level)
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   - Female (—) married
   - male (↔) sibilings
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5) maya - F/m
   we can denote Gender directly based on names
6) you family tree.

Son of brother or sister - nephew
Daughter of Brother
Or sister - Niece.
Husband of Daughter - Son-in-law
wife of Brother
Brother-in-law - S Sister-in-law
wife of Son. Daughter-in-law

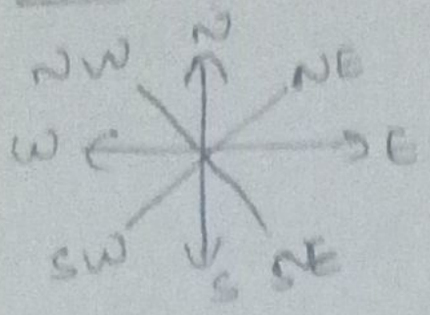
3 Categories

(I) Backward tracking
(II) Symbols
(III) family questions.

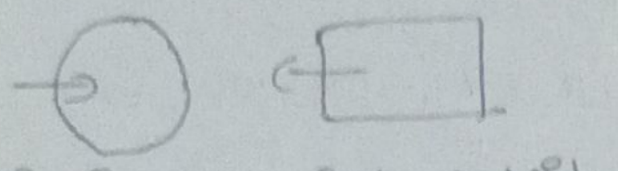
Important relations

Father of father (or) mother - Grandfather
mother of father / mother - Grand mother.
wife of Grandfather - Grandmother
Husband of Grandmother - Grand Father
Father-in-law of father/mother - Grand Father
mother-in-law of mother/father - Grandmother
Brother of Father - Uncle (paternal)
Sister of father - Aunt (paternal)
SS/Brother of mother - Maternal uncle/maternal aunt.
Father of wife/husband - father-in-law
mother of wife / husband - mother-in-law.
Father's / mother's only son/daughter - oneself.
Son/daughter of uncle / Aunt - cousin.
Brother / sister of husband or wife - Brother-in-law / sister-in-law
Husband of sister / sister-in-law - Brother-in-law

Seating Arrangement



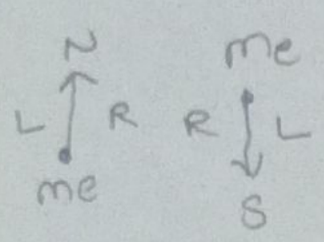
→



facing Inside facing outside

→ Even if they sit Inside (or) outside clockwise (or) anticlockwise will never change.

→



Types

Single Row

Parallel Row.

may be a square, circle, rectangle.

Steps

1) Count the no. of people
2) Draw a frame work.
3) Solve Sentence by sentence & merge them.

Coding & Decoding

A	1	Z	26
B	2	Y	25
C	3	X	24
D	4	W	23
E	5	V	22
F	6	U	21
G	7	T	20
H	8	S	19
I	9	R	18
J	10	Q	17
K	11	P	16
L	12	O	15
M	13	N	14

Reverse position = (27 - original position)

Types

- → Letters
- → Numbers
- → Symbols
- → Group
- → Miscellaneous

F = 6 J & O = 10
P = 16 T20 = 20
G = 7 K = 11
Q = 17 L = 12
M = 13
H = 8 W = 23
R = 18 C = 3
I/J = 9 N = 14
S = 19 N
D = 4

X = 24

AZ → (A) to (Z)
BY → (B) to (Y)
CX → (C) to (X)
DW → (D) to (W)
EV → (E) Very
FU → (F) (U) SE
GT → (G) to (T)
HS → (H) igh (S) chool
IR → (I) (R) ON
JQ → (J) ust of (Q) uiz
KP → (K) ut (P) olly
LO → (L) ove
MN → (M) to (N)

Statement & Assumptions

Implicit / Explicit

↓ Has been suggested Indirectly (True)

↓ [Past / future] directly it is explained (false)

→ Every, each, none, all, only, etc against statement

→ Assumption has to be stick to statement

→ Generalised & specific is explicit

Coding & Decoding

A	1	Z	26
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Reverse position = (27 - original position)

Types

- Letters
- Numbers
- Symbols
- Group
- Miscellaneous

F = 6, P = 16, G = 7, Q = 17, H = 8, R = 18, I = 9, S = 19, J = 10, T = 20, K = 11, L = 12, M = 13, W = 23, C = 3, N = 14, D = 4

X = 24

NZ → (N) to (Z)

BY → (B) (Y)

CX → (C) (X)

DW → (D) (W)

EV → (E) (V)ery

FU → (F) (U) SE

GT → (G) (T)

HS → (H)igh (S)chool

IR → (I) (R)ON

JQ → (J)ut of (Q)uen

KP → (K)ut (P)ully

LO → (L)(O)ve

MN → (M)oo(N)

Statement & Assumptions

Implicit / Explicit

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→ Every, each, none, all, only, etc against statement.

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→ Generalized to specific is explicit

Data Interpretation

Table form

Bar graph

Pie chart

Graph form (or) Tree form

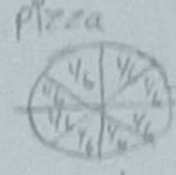
Pie chart

1) Fractions

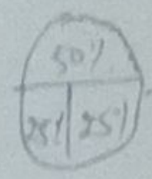
2) Percentages

3) Angles

Area



→ sector

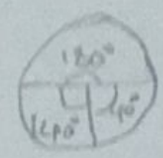


→ 100%

1

Fraction

Percentage



→ 360°

Angle

Statement & Conclusions

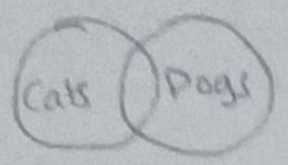
→ O/P will be Result (or) solution then it is true

→ do not pre assume

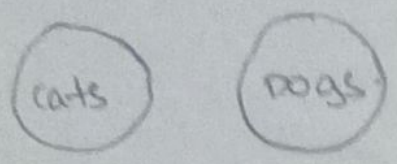
Syllogyms

All cats are dogs

Some cats are Dogs



No cats are DOGS



Series

1) Increasing cases:-
   - → Addition
   - → multiplication
2) Decreasing cases:-
   - → Subtraction
   - → Division
3) mixed cases
   - → Addition & subtraction
   - → Addition & multiplication
   - → multiplication & subtraction
   - → multiplication & Division
4) Special cases
   - → squares - 1, 4, 9, 16, 25, 36, 49, 64, 81 ...
   - → cubes - 1, 8, 27, 64, 125, 216 ...
   - → Even/odd/Primes - 2, 3, 5, 7, 11, 13, 17, 19, 23, ...

A S
M M
M D

Examples

* 1, 2, 4, 7, 11, 16, ?
  +1 +2 +3 +4 +5 +6

* 1, 1, 2, 6, 24, 120, ?
  ×1 ×2 ×3 ×4 ×5 ×6

* 100, 98, 93, 90, 85, ?
  -2 -5 -3 -5 -11

* 1024, 512, 256, 128, 64, ?
  ÷2 ÷2 ÷2 ÷2 ÷2

* 2, 5, 21, 22, 30, 19, 34, ?
  +3 +3 +3 +3 +3

* 9, 19, 37, 75, 149, ?
  ×2+1 ×2-1 ×2+1 ×2+1

Analogy

Numb
Lette
Word

* 6:222 :: 7: 350 ?

  6^3+6 7^3+7

  216+6 343+7

* 26:5 :: 65 8 ?

  $\sqrt{26-1}$ $\sqrt{65-1}$

  $\sqrt{25}$ $\sqrt{64}$

  5 8

Examples

* 1, 2, 4, 7, 11, 16, ? → 22
  +1 +2 +3 +4 +5 +6

* 1, 1, 2, 6, 24, 120, ? → 720
  ×1 ×2 ×3 ×4 ×5 ×6

* 100, 98, 95, 90, 83, ? → 72
  -2 -3 -5 -7 -11

* 1024, 512, 256, 128, 64, ? → 32
  ÷2 ÷2 ÷2 ÷2

* 25, 25, 27, 22, 30, 19, 34, 16, ? → 39, 13
  -3 -3 -3
  +2 +3 +4 +5

* 9, 19, 37, 75, 149, ? → 299
  ×2+1 ×2-1 ×2-1 ×2+1

---

* Analogy
  - Number
  - Letter
  - Word

* 6 : 222 :: 7 : 350 ?
  6^3+6 7^3+7
  216+6 343+7

* 2 : 8 :: 3 : 27
  2^3 3^3

* AZ : BY :: CX : DW

* 26 : 5 :: 65 : 8 ?
  $\sqrt{26-1}$ $\sqrt{65-1}$
  $\sqrt{25}$ $\sqrt{64}$
  5 8

* 14:9 :: 26: 15 ?

13

$\frac{16}{8}+2$ $\frac{26}{2}+2$

7+2 13+2

=9 =15

* ace : bdf :: fhj : gik ?

+1+1+1 +1+1+1

* m x n : 13x14 :: FXR : 6x18

* 625 : 25 :: 225 : 15 ?

$\sqrt{625}$ $\sqrt{225}$

* 3:27 :: 7: 343 ?

(33) (73)

3x3x3 7x7x7

* 9:80 :: 10: 99 ?

$9^2=81$ $10^2=100$

81-1 100-1

= 80 = 99

* milk : curd :: water: Ice

* Desert : Sand :: Sea: water

* Book : Paper :: Tabel : wood

* IId : Box :: cork : Bottle

* Circle : Circum Center :: Square : Perimeter

* Shakespeare : Drama :: Ghalib : Ghazels.

* Bihar : Patna :: Goa : Panaji

* Dentist : teeth :: Cardiologist : Heart

* Grass : Green :: Sky : Blue

* melt : liquid :: freeze : solid

* muslims : mosque :: sikhs : Gurudwara

* Teachers day : Sept 5th :: womens day : 8th march

(*) ba b b | b a b b | b a b b

(*) m op n | mo p n |
m o p n | m op n

(*) aa b | aaa b | aaaa b |
aaaa a b.

Ranking & Ordering Arrang

→ Total number of objec

Persons =

[(sum of positions of th
Same person / object
both sides)

→ Add to different objects

→ Add & Sub with two different units

→ Different object can unpredictable

Odd-man-out

Based on numbers

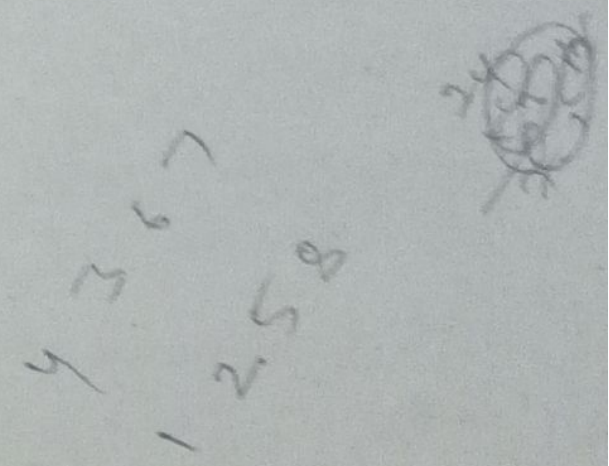
Based on Alphabets

Based on word

Based on figures

Based on numbers

A) 69 B) 67 C) 71 D)



x :: cook : Bottle

Square Center :: Square : Perimeter

Shakespeare : Drama ::

Ghalib : Ghazels.

Bihar : Patna :: Goa : Panaji

Artist : teeth ::

Cardiologist : Heart

Glass : Green :: Sky : Blue

: liquid :: Freeze : Solid

ons : Mosque :: Sikhs : Gurudwara

rs day : Sept 5th :: Women's day : 8th March

o b | b a b b | b a b b

p n | m o p n |

Ranking & Ordering Arrangements

→ Total number of objects/

Persons =

[(Sum of positions of the Same person/object from both sides) − 1]

→ Add to different objects

→ Add & Sub with total two different objects

→ Different objects can be unpredictable

Odd-man-out

Based on numbers
Based on Alphabets
Based on word
Based on figures.

Based on numbers

- Prime numbers
  - 2, 3, 5, 7, 11, 13, 17, 19 ---
- Squares, cubes
  - 1, 8, 27, 64, 125, 216
  - 1, 4, 9, 16, 25, 36, 49, ---
- Powers & factorials
  - $2^2, 2^3, 2^4, 2^5$
  - 5!, 6!, --
- Arithmetic operations on digits
  - 326 = 3+2+6, 18 = 1+8, 27 = 2+7
- multiples of factors
  - 6, 12, 18, 24, 38, ---

A) 69 B) 67 C) 71 D) 39 E) 14

679

15