

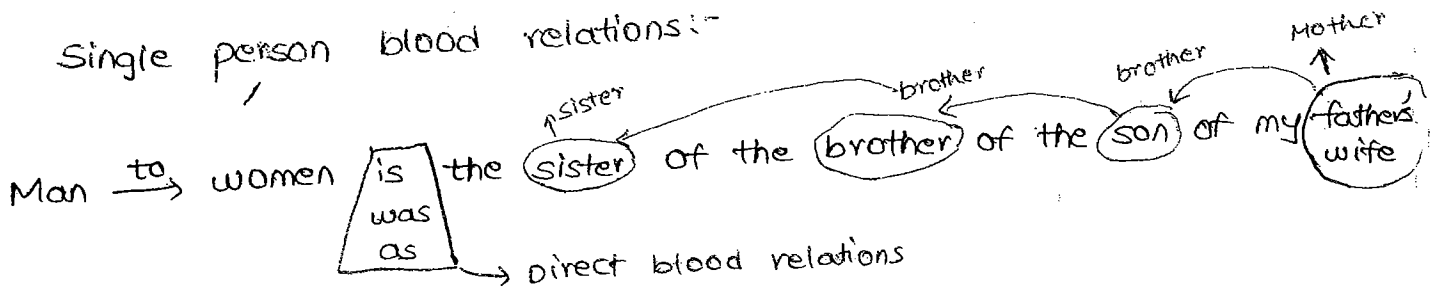
BLOOD RELATIONS

1. Father (or) Mother brother → Uncle
 - paternal uncle (father's brother)
 - Maternal uncle (mother's brother)
2. Father (or) mother sister → Aunt
3. Wife's (or) Husband's father → Father-in-law
4. Wife's (or) Husband's mother → Mother-in-law
5. Wife's (or) Husband's Brother → Brother-in-law
6. Wife's (or) Husband's sister → sister-in-law
7. Uncle's (or) Aunt's son (or) Daughter → Cousin
8. Brother's (or) sister's son → Nephew
9. Brother's (or) sister's daughter → Niece

Blood relations are three type:-

1. Single person blood relations
2. Mixed Blood relations
3. Coded Blood relations

Single person blood relations:-



Ans:- Sister

2. Man → ^{bro}women's ^{bro}brother's ^{sis}sister's ^{father}father is the ^{father}father of the ^{bro}brother of the ^{sis}sister of the ^{bro}son of my ^{father's wife} (17) Mother

Ans:- Father

3. Anil introduces Rohit as the ^{cousin}son of the only ^{uncle}brother of his ^{mother}father's wife. How is Rohit related to Anil.

Ans:- Cousin.

4. pointing towards a person in a photograph, Anjali said he is the only ^{brother}son of ^{father}father of my ^{brother}sister's brother. How is that person related to Anjali.

Ans:- Brother.

5. pointing out a photograph a man tells his friend she is the ^{daughter}daughter of the ^{himself}only son of my ^{mother}father's wife. How is the girl in the photograph related to man.

Ans:- Daughter.

6. pointing to a man on the stage, Rita said he is the ^{son}brother of the ^{daughter}daughter of the ^{Rita}wife of ^{husband}my husband. How is the man on the stage related to Rita.

Ans:- son

7. pointing to a man in a photograph a woman said his ^{father}brother's father is the only ^{father}son of ^{grand father}my grand-father. How is the woman related to man in the photograph.

Ans:- sister

Note:- Like in above type of problems if from either ends (Father = Father) or (Mother = Mother) or (uncle = Uncle) or (Aunt = Aunt), if both are males their brother relations

between them. If both are females their sister relation between them. If one is male and other is female their brother & sister (or) sister and brother relation between them.

8. If Kamals ^{brother} says Ravi's ^{mother} mother ^{= sister} is the only daughter ^{sister} of my mother. How is kamal related to Ravi.

Ans:- Brother

Note:- Like in above type of problems convert the relation in terms of asked person form then apply from opposite.

9. pointing to a man ^{in a photograph}, Asha said his ^{mother} mothers ^{sister} only daughter ^{= daughter} is my ^{mother} mother. How is Asha related to that man

Ans:- Niece

Mixed Blood relations :-

Male = '+'

female = '-'

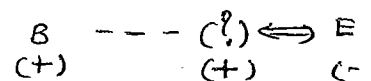
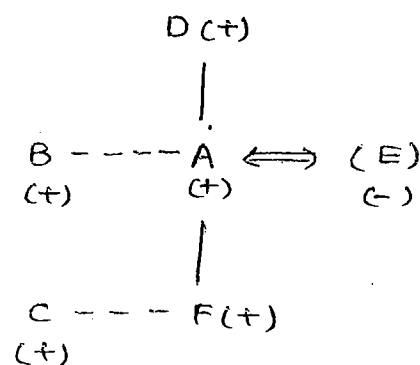
⇒ couple

---> (Brother to Brother) or (Brother to sister) or (sister to sister)
(or) (sister to Brother) or (father or mother) or (son or daughter)

* Read the following information carefully and answer the questions below given it. There are 6 persons A, B, C, D, E, F. C is the sister of F, B is the brother of his husband, D is the father of A, and grand father of F.

There are two fathers, three brothers and mother in a group. (18)

1. Who is the mother? (d)
a) A b) B c) C d) E
2. Who is his husband? (c)
a) B b) C c) A d) F
3. How many male members are there in the group? (d)
a) 1 b) 2 c) 3 d) 4
4. How is 'F' related to 'E'? (c)
a) Uncle b) Husband c) Son d) Daughter
5. Which of the following is a group of brother? (A)
a) ABF b) ABD c) BFC d) BDF



2. prashant Arora has three children Sangeeta, vimal, Asish. Asish married mounica is the eldest daughter of Mr. & Mrs. Roy. The Roy's married their youngest daughter to the eldest son of Mr. & Mrs. Sharmay who had two sons Amith and sashi. The Roy's have two more children that is roshan and vandana both are elder to veena. Sameer and Ajay are sons of Asish and Mounika. Rashmi is the daughter of Amith.

1. What is the surname of Sameer? (b)

a) Roy b) Arora c) Sharma d) can't be

2. How is Ajay related to Roshan? (b)

a) son b) Nephew c) Niece d) son-in-law

3. What is the surname of Rashmi? (c)

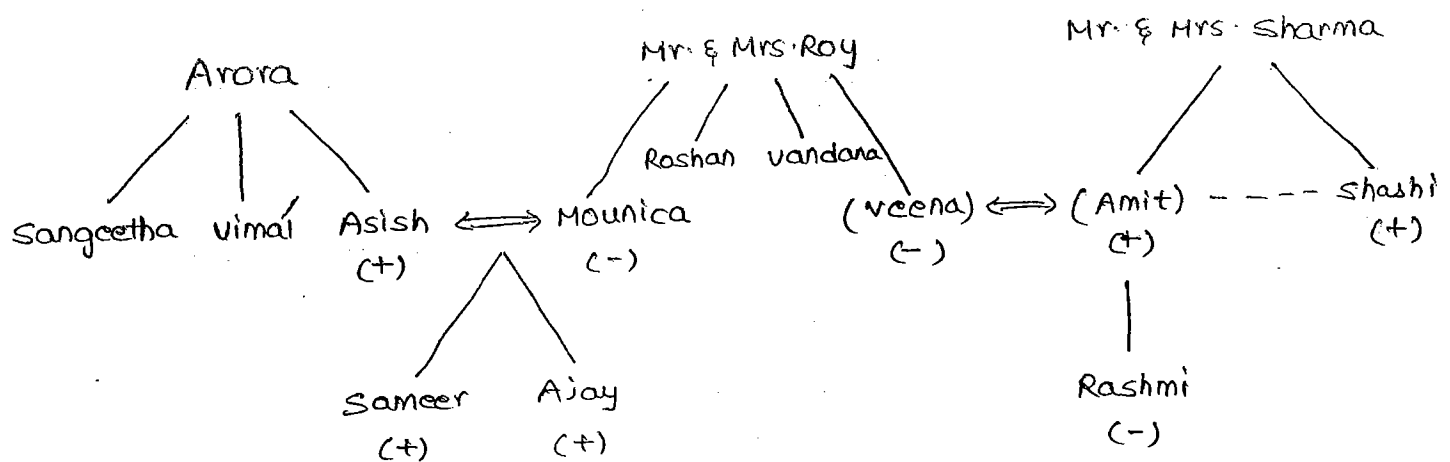
a) Arora b) Roy c) Sharma d) None.

4. How many children does Roy have? (c)

a) 2 b) 3 c) 4 d) more than 4

5. How is Veena related to Sashi? (c)

a) wife b) sister c) sister-in-law d) cousin



Coded Blood relations:-

Q. Read the following information carefully and answer the question that follows.

$A+B$ means "A is the son of B"

$A'-B$ means "A is the wife of B"

$A \times B$ means "A is the brother of B"

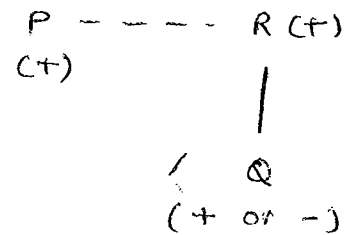
$A \div B$ means "A is the mother of B"

$A=B$ means "A is the sister of B"

1) What does $P \times R \div Q$ means? (c)

(19)

- a) P is brother of Q
- b) P is father of Q
- c) P is uncle of Q
- d) P is nephew of Q



2. What does $P = R + Q$ means?

Q. Read the following information carefully and answer the question that follows.

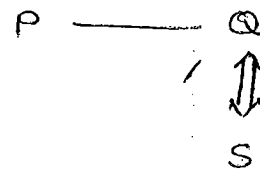
$A+B$ means "A is the daughter of B"

$A \times B$ means "A is the son of B"

$A-B$ means "A is the wife of B"

1. If $P \times Q - S \rightarrow$ True? (b)

- a) S is wife of Q
- b) S is father of P
- c) P is daughter of Q
- d) Q is father of P



2. If $T-S \times B - M, \rightarrow$ False? (d)

- a) B is mother of S
- b) M is husband of B
- c) T is wife of S
- d) S is daughter of B

Q.

$P+Q$ means "P is the brother of Q"

$P-Q$ means "P is the mother of Q"

$P \times Q$ means "P is the sister of Q"

1. Which of the following means "M is the maternal Uncle of R". (c)

- a) $M+K+R$
- b) $M-R+K$
- c) $M+K-R$
- d) $M+K \times R$

Analytical Figures:-

(22)

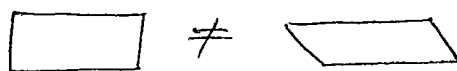
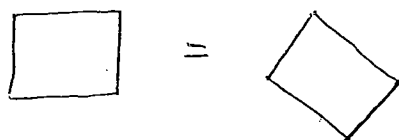
Triangle = 3 sides + 3 angles

Right angle /

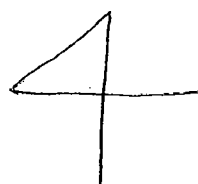
Equilateral triangle

Isosceles triangle

Scalene triangle.



Straight line:-



Horizontal st. line = 1

vertical st. line = 1

Inclined st. line = 1

3 st. lines

1. How many straight lines and how many triangles are there in the following figure.

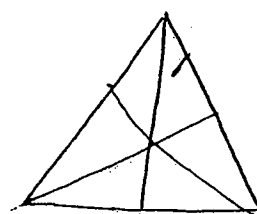
A. 16 triangles, 6 st-lines

$$1 \text{ Fig. triangle} = 3 \times 2 = 6$$

$$2 \text{ Fig. triangle} = 1 \times 2 = 2 + C_1 = 3$$

$$3 \text{ Fig. triangle} = 1 \times 2 = 2 + C_4 = 6$$

$$6 \text{ Fig. triangle} = \frac{1}{16}$$



I-part | II-part

C - combined

half part from I-part
and remaining part from
II-part.

2. How many straight lines and how many triangles are there in the following figure.

A. 7 straight lines, 23 triangles

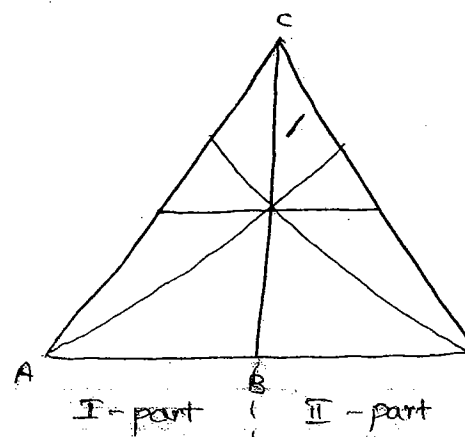
$$1 \text{ F. triangle} = 4 \times 2 = 8$$

$$2 \text{ F. triangle} = 2 \times 2 = 4 + C_1 = 5$$

$$3 \text{ F. triangle} = 1 \times 2 = 2 + C_0 = 2$$

$$4 \text{ F. triangle} = 1 \times 2 = 2 + C_5 = 7$$

$$8 \text{ F. triangle} = 1 = 1$$



3. How many st. lines and how many triangles are there in the following figure. []

A) 50 B) 51 C) 52 D) 53

A. No. of straight lines = 11

No. of triangles =

$$1F \text{ triangle} = 12 = 12$$

$$4F \text{ triangles} = 3+2+4 = 9$$

$$2F \text{ triangles} = 4+4+2+2 = 12$$

$$6F \text{ triangles} = 1+1+2 = 4$$

$$8F \text{ triangles} = 2+1+1+1+2 = 7$$

$$16F \text{ triangle} = 1$$

4. How many st. lines and how many triangles are there in the following figure.

A. straight lines = 8

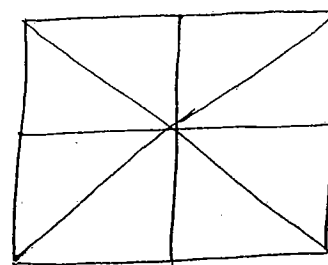
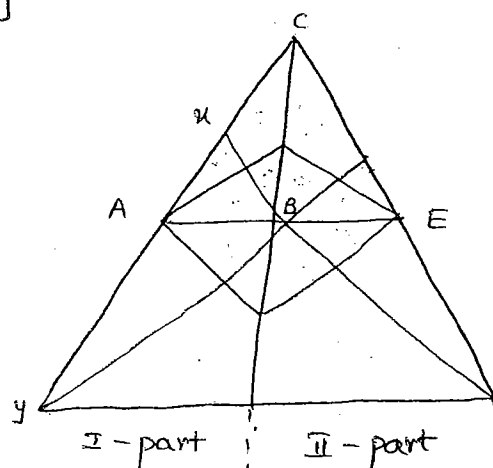
triangles = 16

$$1F \text{ triangle} = 4 \times 2 = 8$$

$$2F \text{ triangle} = 0 + C_4 = 4$$

$$4F \text{ triangle} = 0 + C_4 = 4$$

16



I-part II-part

5. How many straight lines and how many triangles are there in the following figure.

A. straight lines = 12

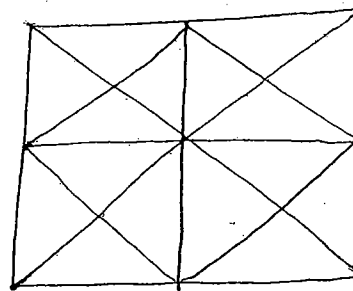
triangles = 44

$$1F \text{ triangle} = 16$$

$$2F \text{ triangle} = 16$$

$$4F \text{ triangle} = 4+4 = 8$$

$$8F \text{ triangle} = \frac{4}{44}$$



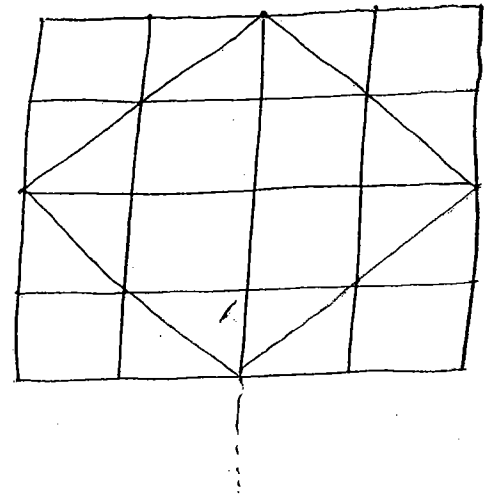
I-part II-part

6. How many st. lines and how many triangles are there in the following figure. [] (23)

a) 94 b) 96 c) 98 d) 99

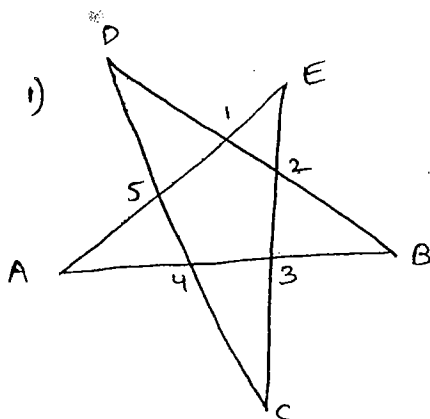
A. No. of st. lines = 14

No. of triangles =



II - model :-

7. How many straight lines and how many triangles are there in the following fig.

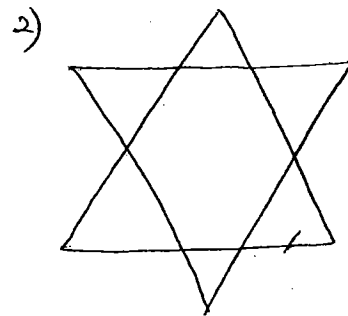


No. of st. lines = 5

No. of triangles = 10

$$AB_1 + CD_2 + AE_3 + BD_4 + CE_5 = 5$$

$$\begin{array}{r} 1 \text{ F triangle} = 5 \\ \hline 10 \end{array}$$



No. of st. lines = 6.

No. of triangles = 8

III - model :-

8. How many straight lines and how many parallelogram are there in the following figure.

No. of straight lines = 7

No. of parallelogram = 18

1 F. parallelogram = 6

2 F. parallelogram = 7

4 F. parallelogram = 2

3 F. parallelogram = 2

6 F. parallelogram = 1

18

