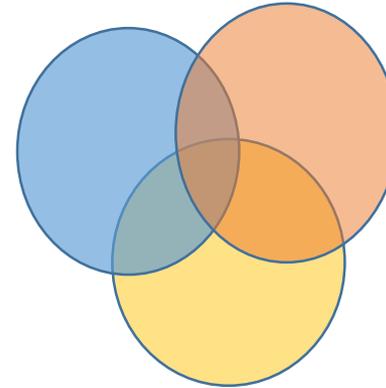


IFAS CSIR NET

OBSERVATIONAL SKILLS I



VENN
DIAGRAM



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Letter Series:

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

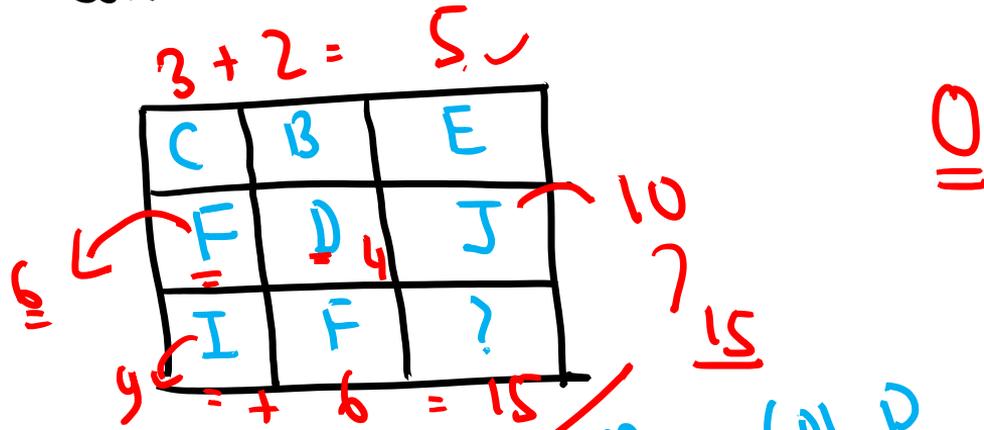
✓ S = ?
↓
19

E J O T Y

5 10 15 20 25



Q1 In the adjacent figure, find the missing letter in the box:



(A) M

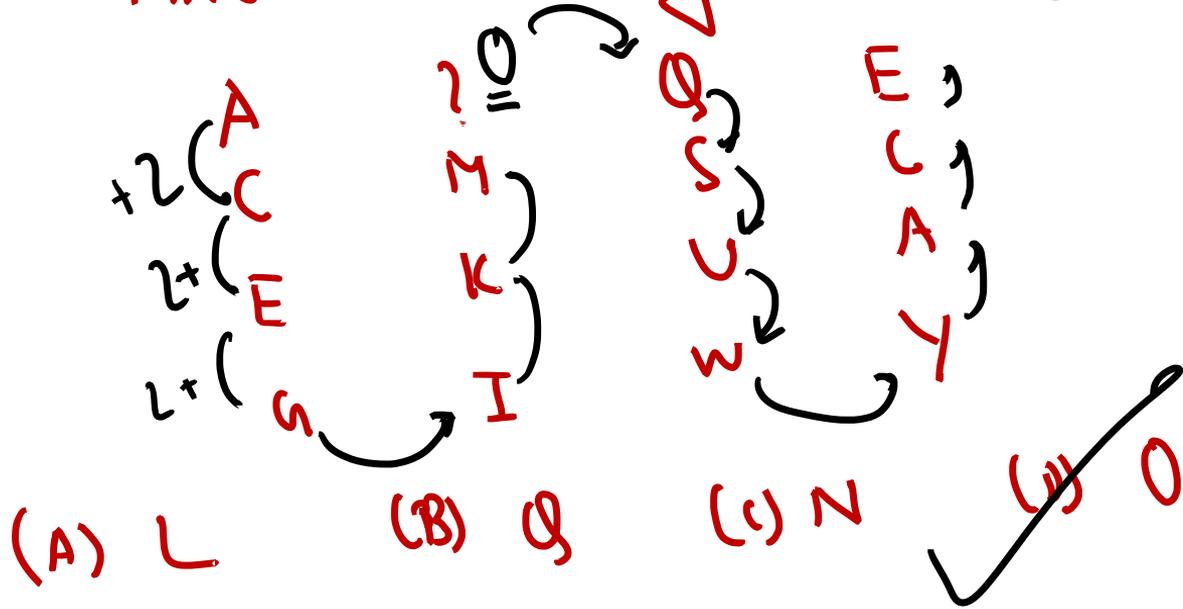
(B) N

~~(C) O~~

(D) P



Q.2 Find the missing letter: (C S I R)





✓ Symbol Series:

Q. What comes next in the sequence? (CSPK)

A B C D E

(1) L

(2) ▽

~~(3) E~~

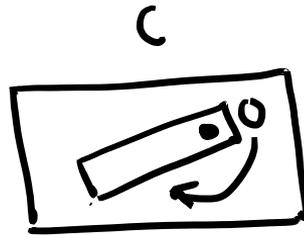
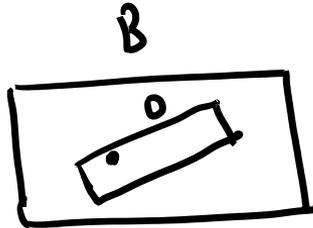
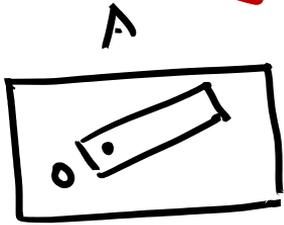
E

(4) D

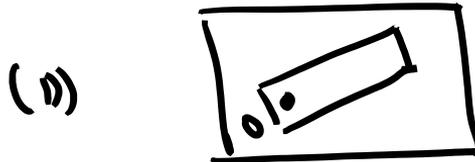
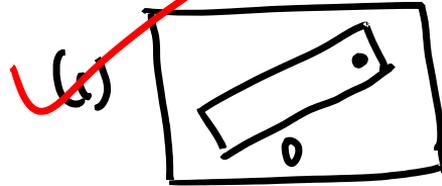


(1542)
Q

What will be the next figure in the following sequence.



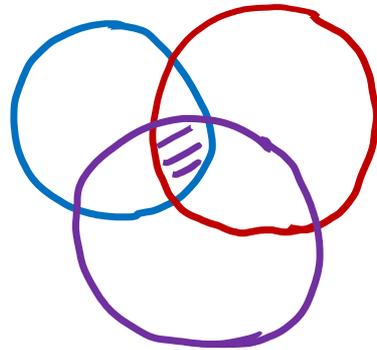
D
?





Venn Diagram:

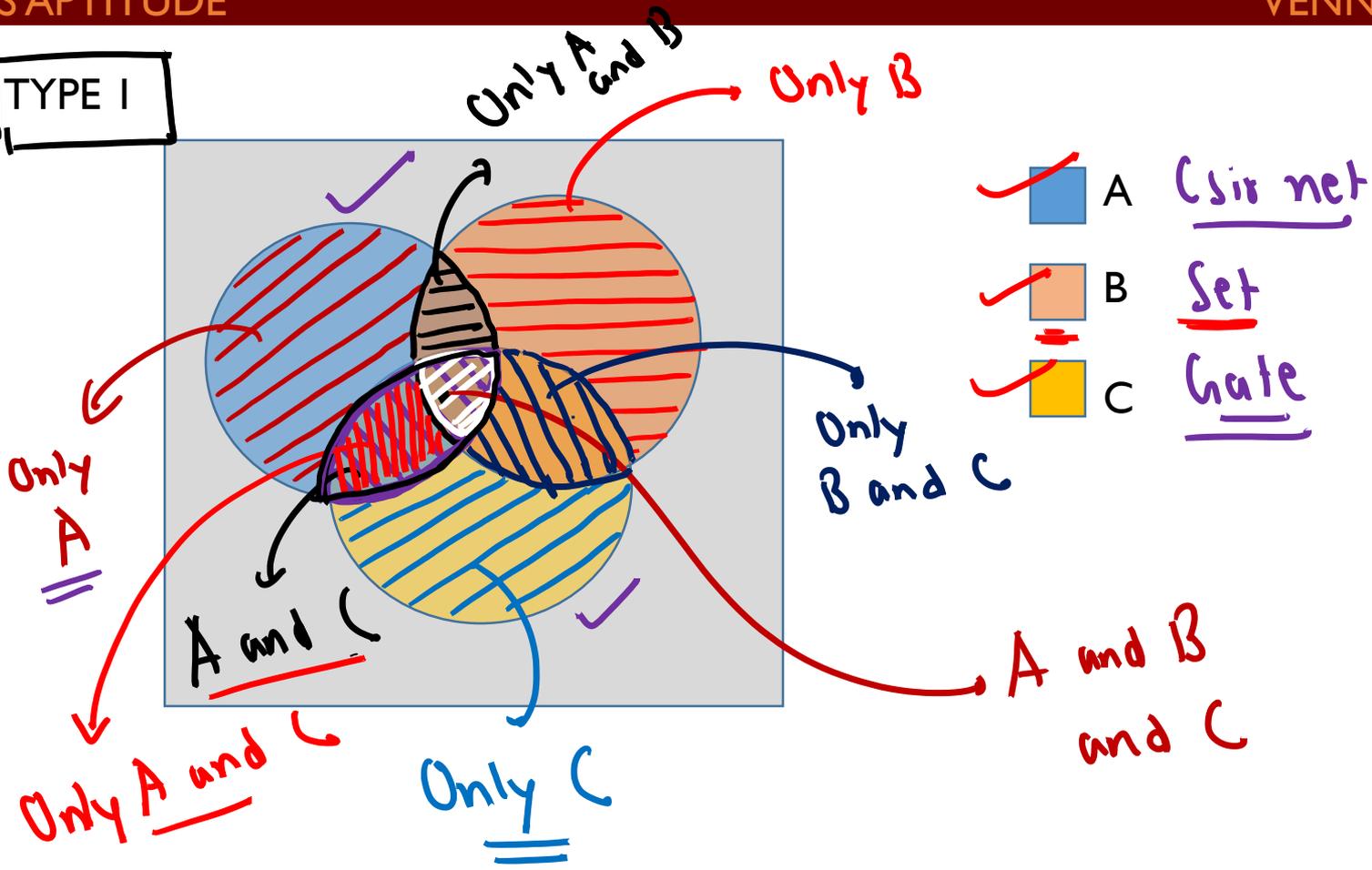
Venn Diagrams are diagrammatic representation of sets, using geometrical figures like circles, triangles, rectangles, etc.



- ▣ CSIR NET
- ▣ SET
- ▣ GATE



TYPE I





Q.1 In a junior college with 500 students, 250 students study Mathematics and 200 students study Biology. One hundred students study neither Mathematics nor Biology.

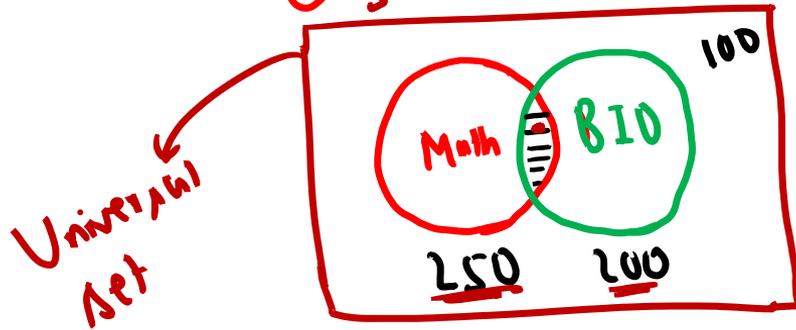
How many students study both Mathematics and Biology ?

(A) 50

(B) 100

(C) 150

(D) 250



$$550 - 500 = \underline{\underline{50}}$$

$$\begin{array}{r}
 M + B \rightarrow 250 + 200 \\
 \rightarrow 450 \\
 + 100 \\
 \hline
 \underline{\underline{550}}
 \end{array}$$





2. A report regarding certain examination is given below. Total number of candidates appeared = 1000, the number of male candidates = 550, the number of candidates passed = 700, the number of successful male candidates will lie between the limits max

- (A) 100 to 250
- (B) 250 to 550
- (C) 550 to 700
- (D) 700 to 1000

1000



550 ✓

max

min

$$\begin{aligned} \text{Female} &= 1000 - 550 \\ &= \underline{\underline{450}} \end{aligned}$$

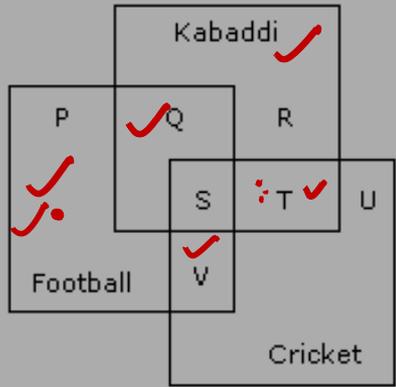
$$\begin{array}{r} 700 \\ - 450 \\ \hline 250 \end{array}$$





3.

The diagram given below represents those students who play Cricket, Football and Kabaddi.



PQR

Study the diagram and identify the students who play all the three games.

- A. P+Q+R ✗
- B. V+T ✗
- C. S+T+V ✗
- D. S ✓





4. In a picnic of elderly persons, 25 persons take tea, 20 persons take coffee and 15 persons take milk. Ten persons take both tea and coffee and 8 persons take both milk and coffee. None of them takes tea and milk both and everyone takes at least one of the three beverages. How many persons went to the picnic?

(A) 25

(B) 35

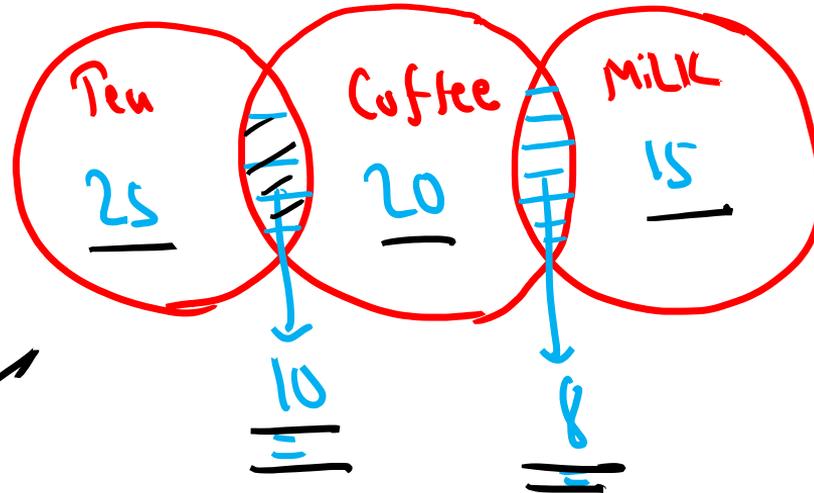
~~(C) 42~~

(D) 60

Aptitude

$$25 + 20 + 15 = 60$$

$$60 - 18 = 42$$







A student is free to choose only Chemistry, only Biology or both. If out of 32 ✓ students, Chemistry has been chosen by 16 and Biology by 25, then how many students have chosen Biology but not Chemistry?

- 1. 9
- 3. 25

- 2. 16
- 4. 7

(CSIR NET)

$$32 - 16 = 16$$

$$32$$



$$25 + 16 = 41$$

$$41 - 32 = 9$$

Only Bio
 $= 25 - 9 = 16$



5. In a hospital, 260 patients of skin disorder were treated, if 150 of them had been exposed to chemical A, 76 to chemical B, and 38 to both chemicals A and B. Find out the number of patients exposed to B but not chemical A.

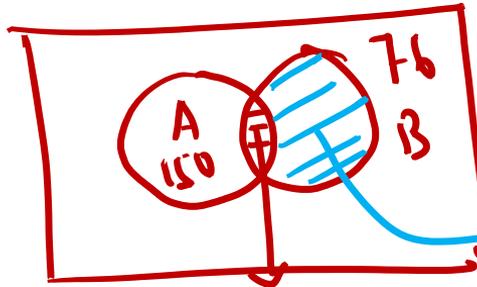
(A) 34

(B) 38

(C) 74

(D) 184

260



38

$$76 - 38 = 38$$

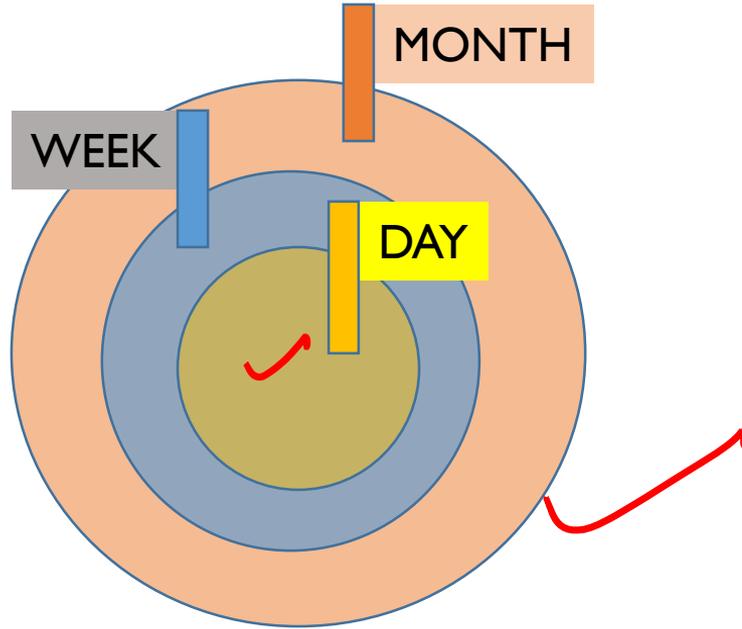
Only B





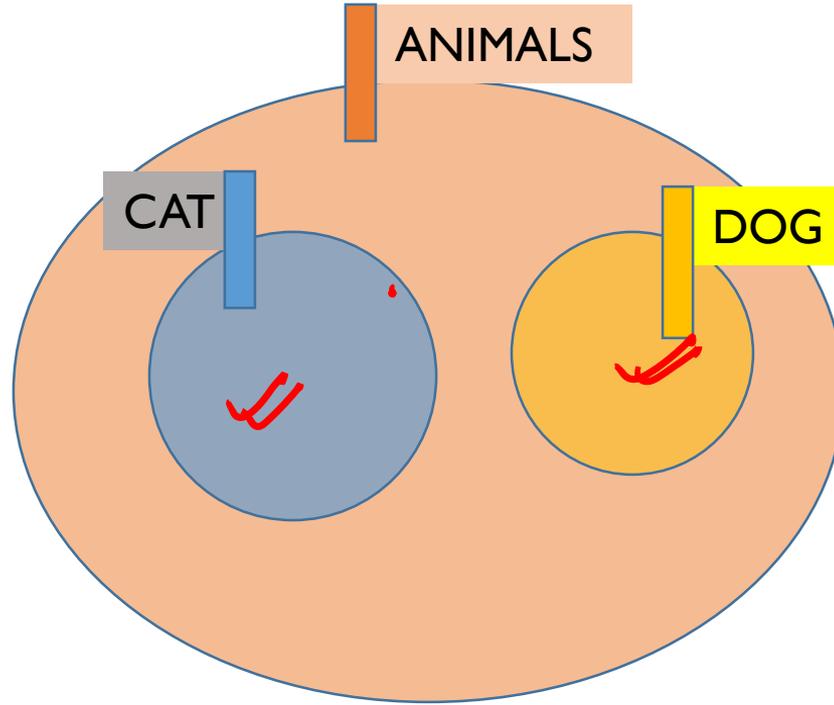
WEEK, MONTH, DAY

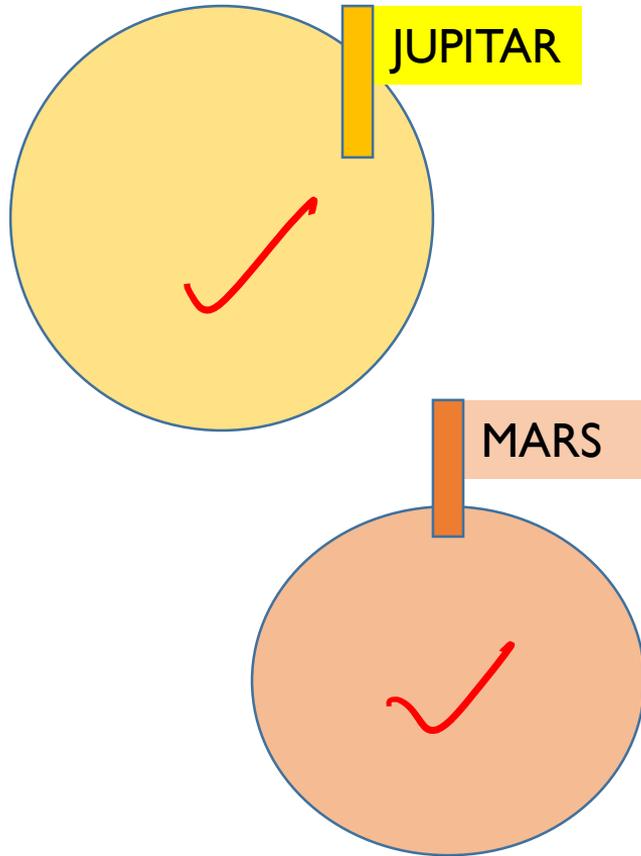
TYPE 2



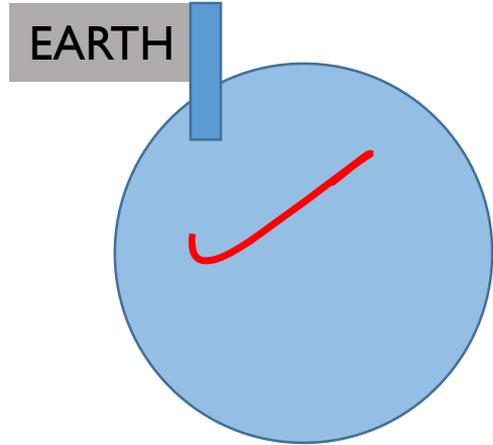


✓ ANIMALS, CAT, DOG



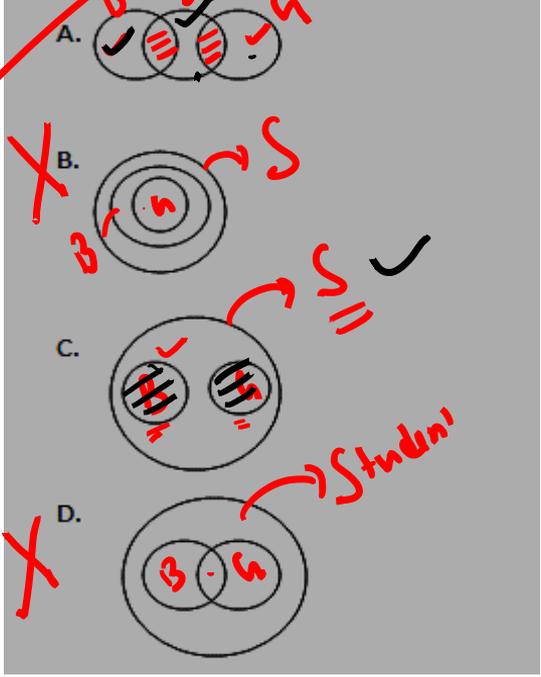


MARS, EARTH, JUPITAR





1. Which of the following diagram shown the correct relationship among Boys, students, Girls

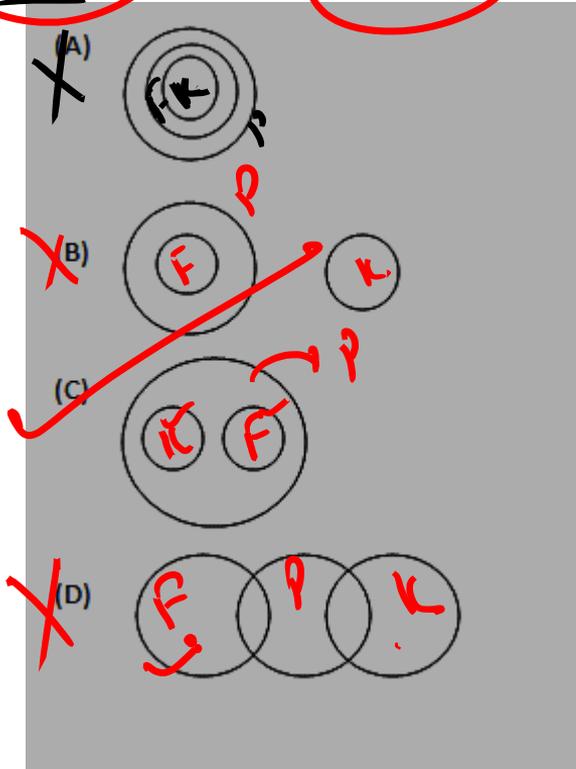


Boys / Girls
10 months
Practice

99% → Wrong!!

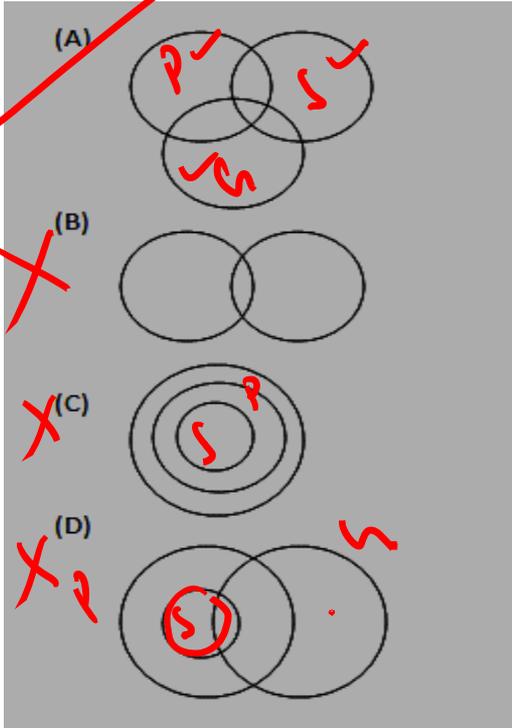


2. Which of the following shows that correct relationship among players, kabadi players, Football players? ✓



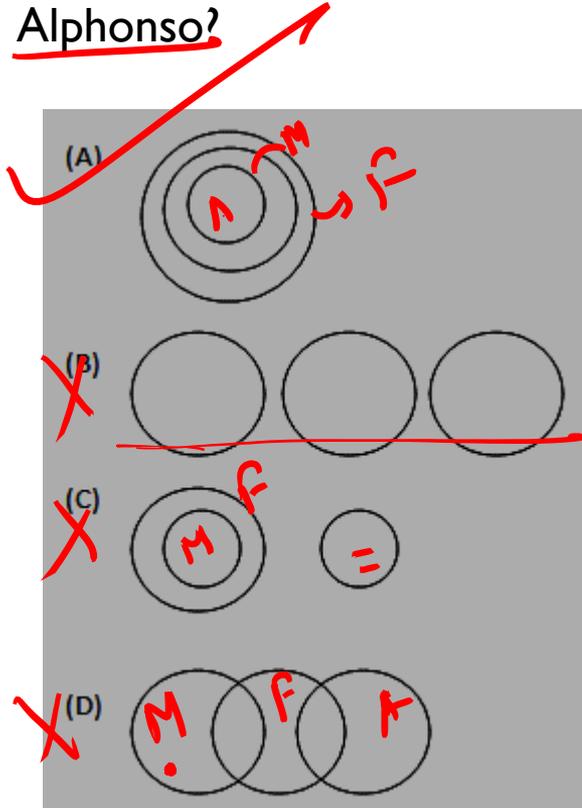


3. Which of the following shows the correct relationship among players, students and girls?



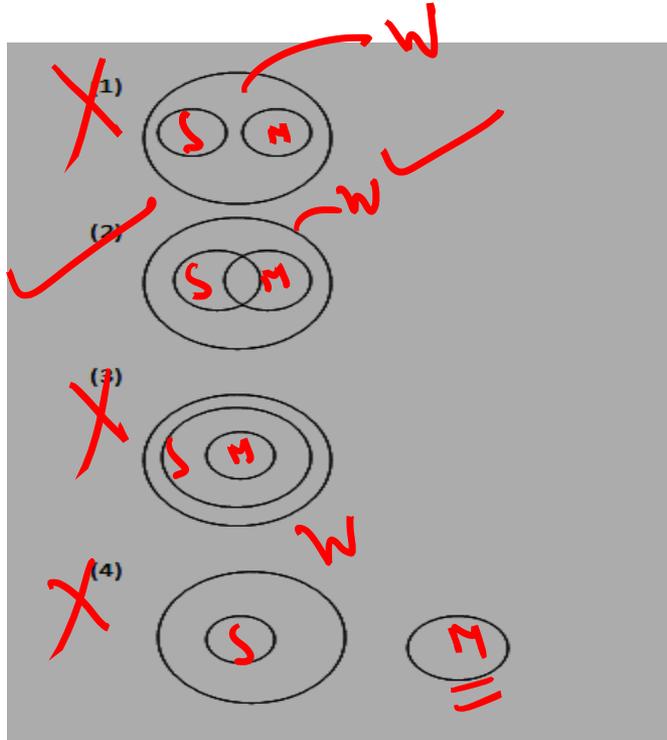


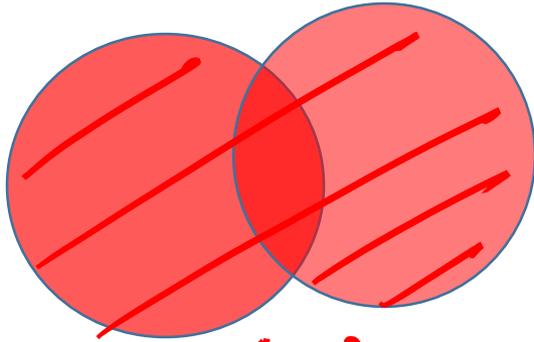
4. Which of the following represent the correct relationship among Fruits, Mangoes, Alphonso?



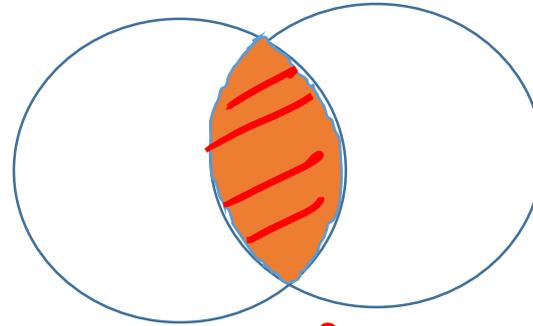


5. Which of the following diagram, the correct relationship among the three terms – Women , Sister, mother

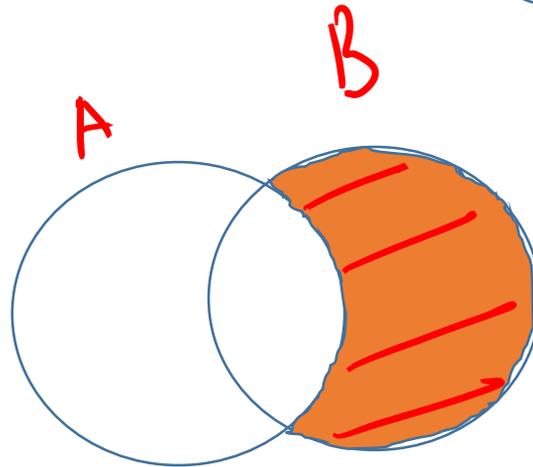




$A \cup B$
UNION



$A \cap B$
INTERSECTION



Only B
 $= B - A$

DIFFERENCE



(CSIR)

Q Suppose three meetings of a group of professors were arranged in Mumbai, Delhi and Chennai. Each professor of the group attended exactly two meetings. 21 professors attended Mumbai meeting, 27 attended Delhi meeting and 30 attended Chennai meeting. How many of them attended both the Chennai and Delhi meeting?

(A) 18 (B) 24 (C) 26 (D) can't be found



HAPPY LEARNING

THANKS

A.P.J Abdul
Kalam!

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