I Preliminary information; Name of the student: R. Lokeswari class: 10th class 2. 3. ROLL No: 12 Name of the lesson / writ: Sets Detailed information of the project: Title of the project: Solving daily life problem using venu diagram and verifying famula (selation) n(AUB) = n(A) +n(B)- n(ANB) www.teacherNews.in 2. Objectives of the project: * Representing the data in venn-diagrams + verifying the relation (firmula) of two sets n(AUB) = n(A)+n(B) - n(ANB) 3. Materials used :-Paper, pens. compan for drawing cincles etc. Tools :-4. (i) Collection of information: -Collection of data negarding to favourite TV channels (Mories and News channels) from 20 possous.

(ii) Comparision and identification:

common elements.

Comparing elements in both sets and identifying

Collection of data: -

I collected information negarding to favourite

I'v channels of 20 persons in my village.

Persons are denoted by numbers 1,2,3... instead of

their names

| Persons | Most watching channels (tavourite) | |
|---------|------------------------------------|---------|
| | News channels | |
| _ l | ~ | |
| 2 | / | ~ |
| 3 | | 1 |
| 4 | / | 13/15/1 |
| 5 | | -1 |
| 6 | | 16 |
| 7 | / | |
| 8 | / | 157 |
| 9 | / | (J.) |
| 10 | 190 | 12 |
| _11 | | LOJ |
| 12 | / | |
| 13 | | 9)1 |
| 14 | / | |
| 15 | 1 | 9 |
| 16 | | _ |
| 17 | | - V |
| 18 | 1 | 243 |
| 19 | The second | / |
| 20 | / | |

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Posoblem solving:

No. of persons interested in watching News channels } = n(E) = 14

No. of persons interested in } = n(M) = 10 watching Movie channels

No of person interested in watching both news 4 movie }= n(Enm) = 4

Total numbers of persons = n(Evin) = 20

(Treating each and everymember interested in any one of the channels)

$$n(E) + n(M) + n(E \cap M) = 14 + 10 - 4$$

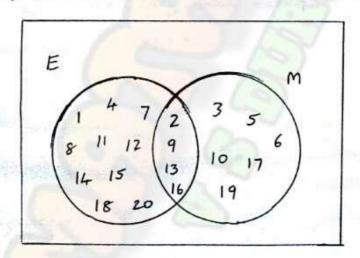
$$= 24 - 4$$

$$= 20$$

$$= n(E \cup M)$$

$$\therefore n(E \cup M) = n(E) + n(M) + n(E \cap M)$$

Representation:



'E'- Set of persons interested in watching News channels
'M'- Set of persons interested in watching Movie channels

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From venn diagram

No. of persons watching only
News channels (not movie channels) } = 10

No. of persons watching onlymone channels (not news channels) } = 6

No of persons watching both } = 4

Since most of the persons are interested in watching News channels, cable operation is advised to give more News channels to satisfy their customers.

Doubtes & questions:-

It three sets are taken, how do we represent in venn diagrams?

Acknowledgement:

I convey my sincere thanks to who are co-operate and putting their earnest efforts in completing the project.

Reference books:-

* APSCERT. Mather text book (10th class)

* Clan 10, CBSE maths text book

Signature of the student:

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