

ALL BRANCH (Hinglish)



General Aptitude

Analytical Aptitude

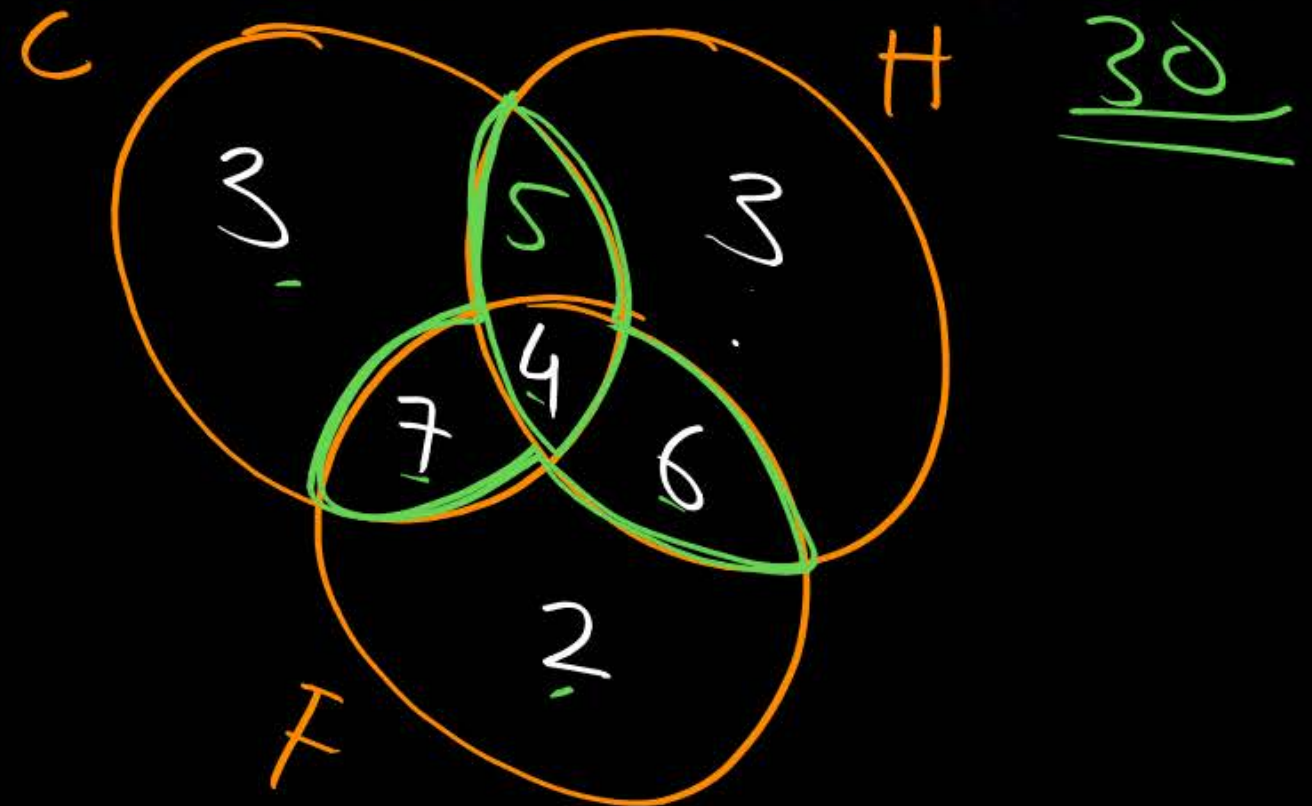
DPP 06 Discussion Notes
Venn Diagrams



By- Amulya Ratan Sir

Common data statements for next 2 questions:

A class of 30 students comprises boys who can play Cricket, Hockey and Football. 3 boys play only cricket, 3 boys play only Hockey and 2 play only football. 4 boys could play all three games, while 11 could play Football and Cricket both, and 10 boys could play Football and Hockey both.



MCQ



How many boys played Cricket and Hockey both?

A 15

B 5

C 25

D 9

MCQ



How many boys can play at least two games?

☒ A 22

☐ B 20

☐ C 25

☐ D 19

Common data statements for next 5 questions

A survey was conducted and 300 people were reading among these newspapers: Times of India, Hindustan Times and Indian Express. It is known that 100 people read at least two of these newspapers. 230 people read Times of India or Indian Express. 180 people read exactly one. 80 read neither Times of India nor Hindustan Times. 130 read the Times of India or Hindustan Times but not Indian Express.

280

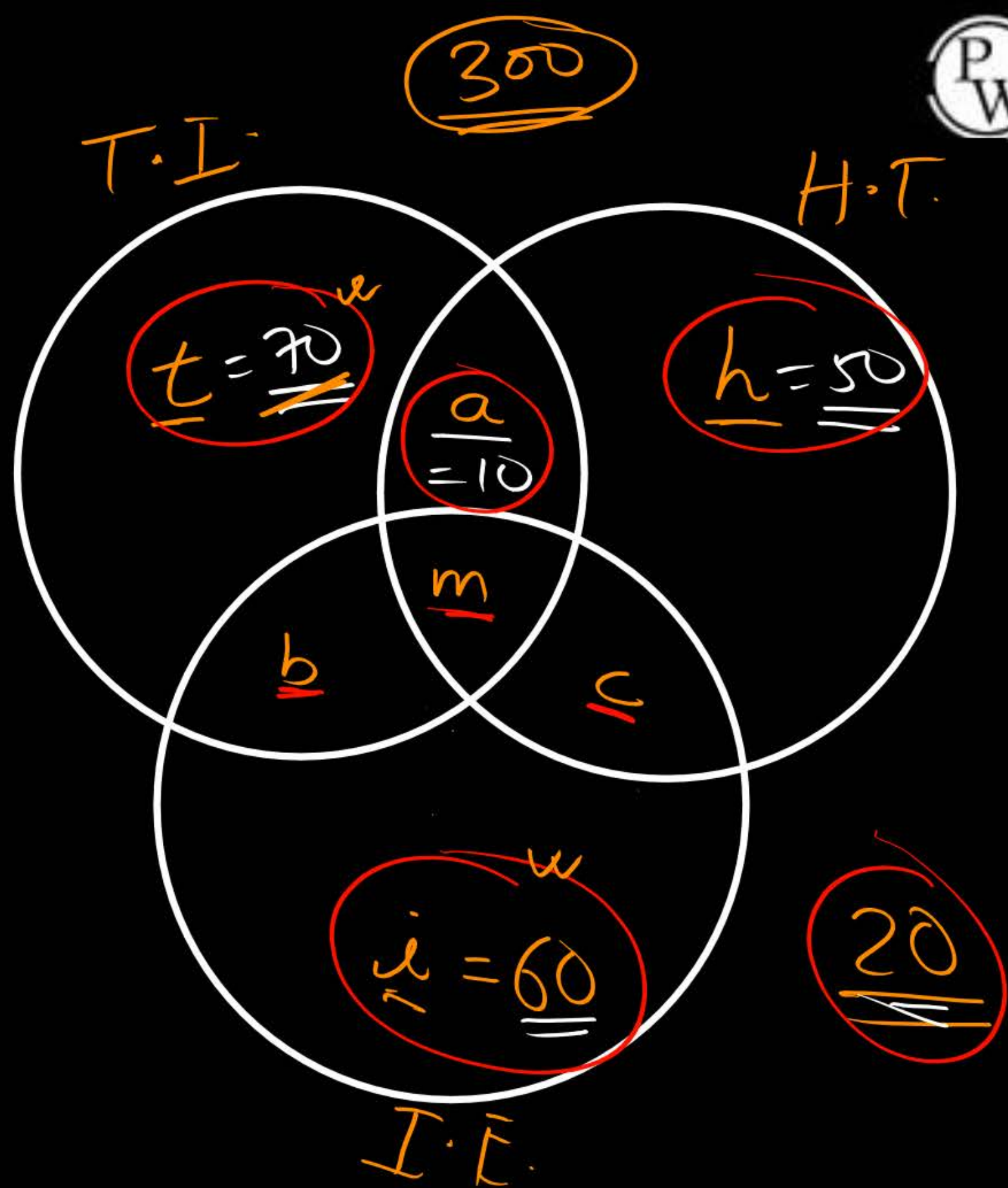
$$\begin{aligned} a+b+c+m &= 100 \\ t+i+a+b+c+m &= 230 \\ t+h+i &= 180 \end{aligned}$$

$$t = 230 - 160 = 70$$

$$h = 180 - 130 = 50$$

$$t+a+h = 130$$

$$a = 10$$



MCQ



How many people read at least one of the other two newspaper along with Indian Express?

A 60

B 80

C 90

D 70

$$b + m + c = 90$$

MCQ



How many read only Times of India or only Indian Express?

A 80

B 100

C 130

D 150

$$t + i = 130$$

MCQ



How many people read Times of India only?

A 35

B 50

C 65

D 70

$$t = 70$$

MCQ



How many people read exactly one newspaper among the three?

$$t + h + i = 180$$

A 180

B 200

C 220

D 160

MCQ



How many people read Indian Express?

A 80

B 130

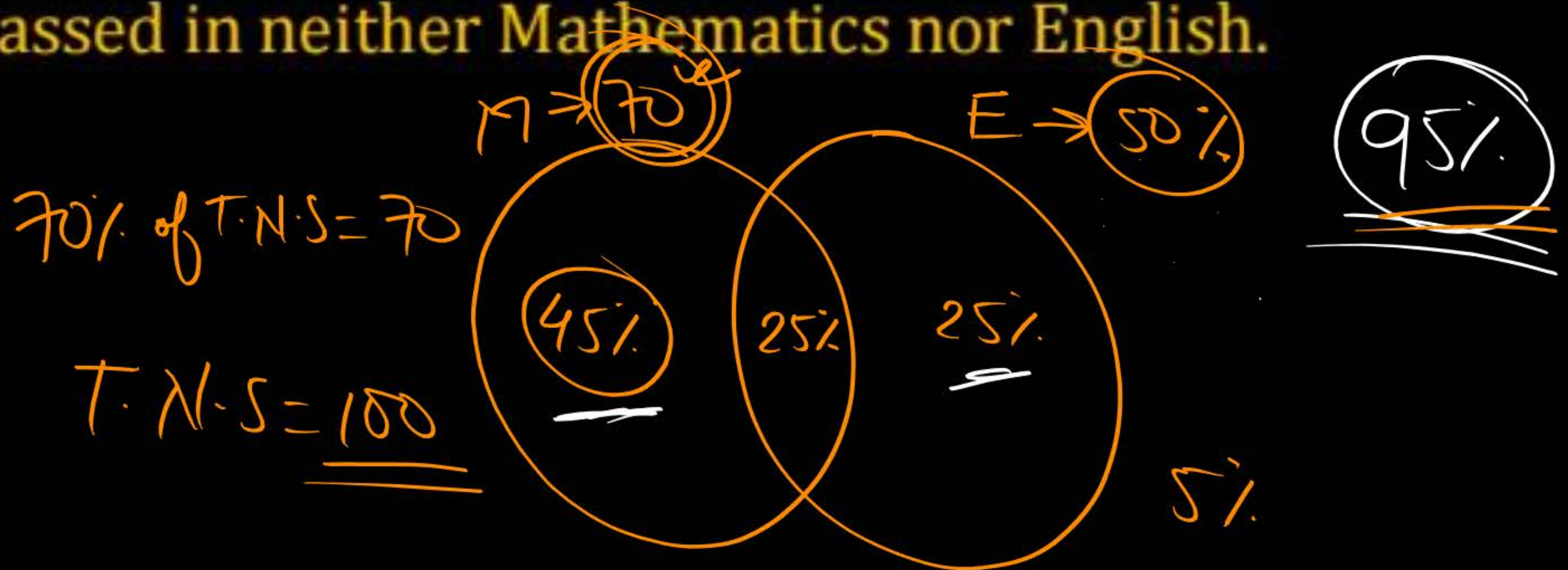
C 150

D 100

$$b + c + m + j = 90 + 60 = 150$$

Common data statements for next 3 questions

In a class, 70 students passed in Mathematics, 50% of the students passed in English, 25% of the students passed in both and 5% of the students passed in neither Mathematics nor English.



MCQ

How many students are there in the class?

- ☒ A 100
- ☐ B 200
- ☐ C 105
- ☐ D None

$$70\% \text{ of } x = 70$$

$$x = 100$$

MCQ



How many students passed in only one subject?

$$45 + 25 = 70$$

- ☒ A 70
- ☐ B 50
- ☐ C 45
- ☐ D 65

MCQ



What is the ratio of the number of students who passed in English to that in Mathematics?

- ☐ A 7 : 5
- ☐ B 5 : 9
- ☐ C 15 : 45
- ☒ D None

Eng : Math

= ~~50~~ : ~~70~~

5 : 7



Thank You!

GW Soldiers