

IB Math Studies 1 BELL WORK

Pick up the worksheet:
Set Theory and Venn
Diagram Practice Problems

Chapter

7

Sets and Venn diagrams

- A** Sets
- B** Set builder notation
- C** Complements of sets
- D** Venn diagrams
- E** Venn diagram regions
- F** Numbers in regions
- G** Problem solving with Venn diagrams

Syllabus reference: 1.1, 3.5

F

NUMBERS IN REGIONS

G

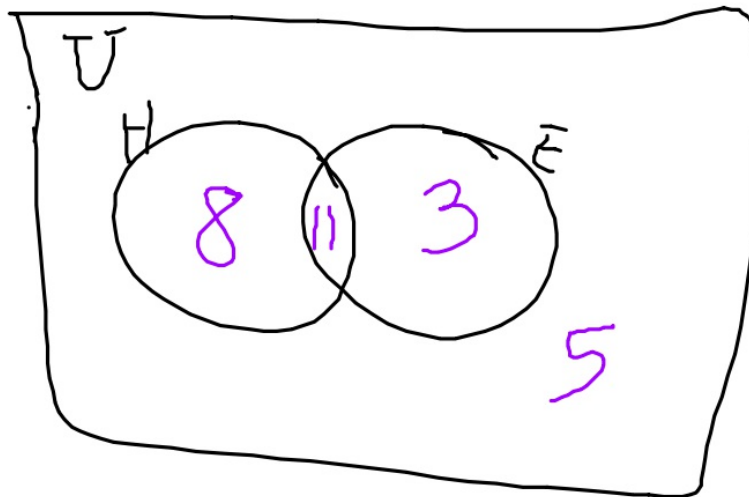
PROBLEM SOLVING WITH VENN DIAGRAMS

A squash club has 27 members. 19 have black hair, 14 have brown eyes, and 11 have both black hair and brown eyes.

a Place this information on a Venn diagram.

b Hence find the number of members with:

- i black hair or brown eyes (or both) = 22
- ii black hair, but not brown eyes. 8

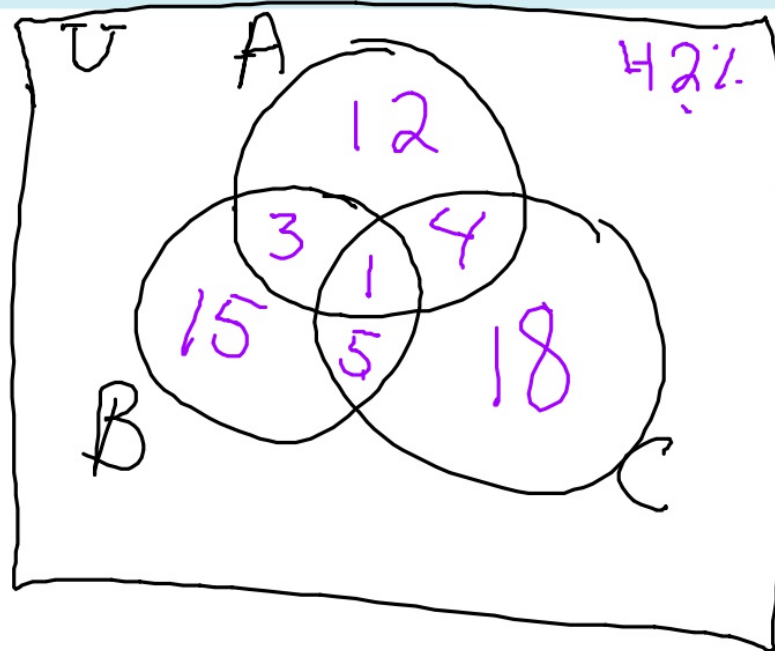


A city has three football teams in the national league: A , B , and C .

In the last season, 20% of the city's population saw team A play, 24% saw team B , and 28% saw team C . Of these, 4% saw both A and B , 5% saw both A and C , and 6% saw both B and C . 1% saw all three teams play.

Using a Venn diagram, find the percentage of the city's population which:

- a saw only team A play
- b saw team A or team B play but not team C
- c did not see any of the teams play.



Assignment:

Exercise 7G, all