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Venn Diagrams and Venn Diagram with %s YouTube Lecture Handouts

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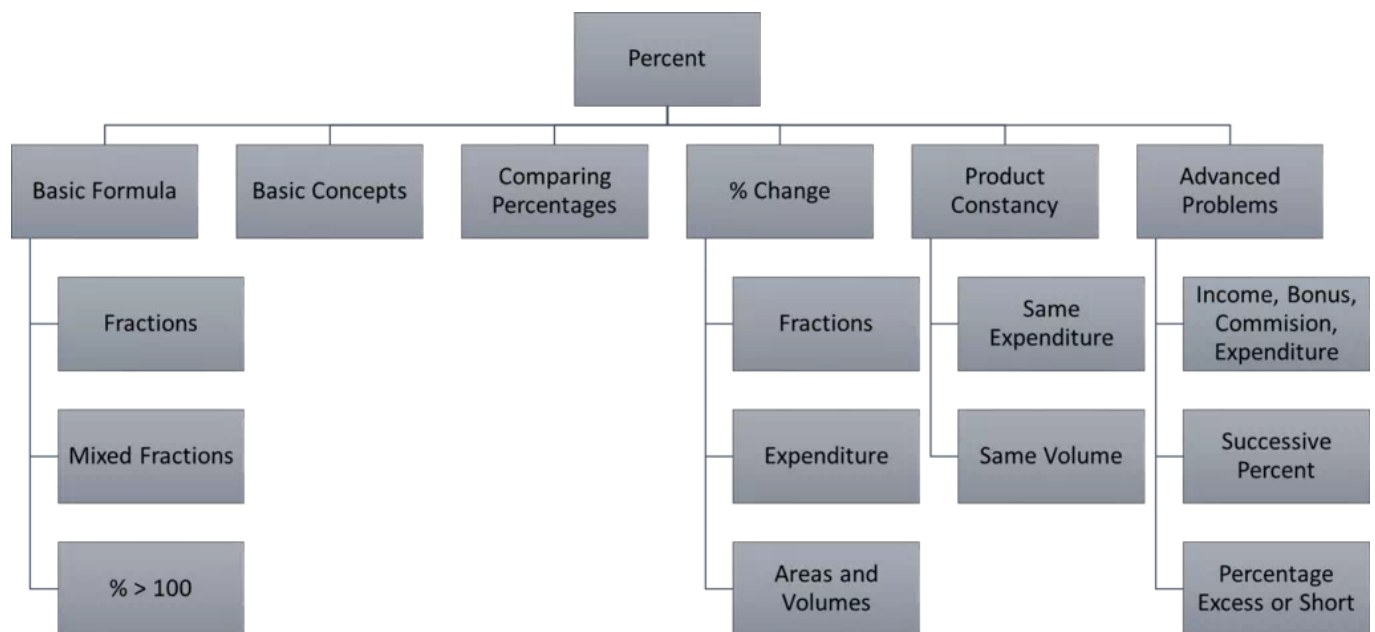


Image of Object of Percent

- 35 are yellow
- 20 are red
- 15 are both red and yellow

Find:

1. Total blocks (40)
2. Are only yellow (20) vs yellow (35)

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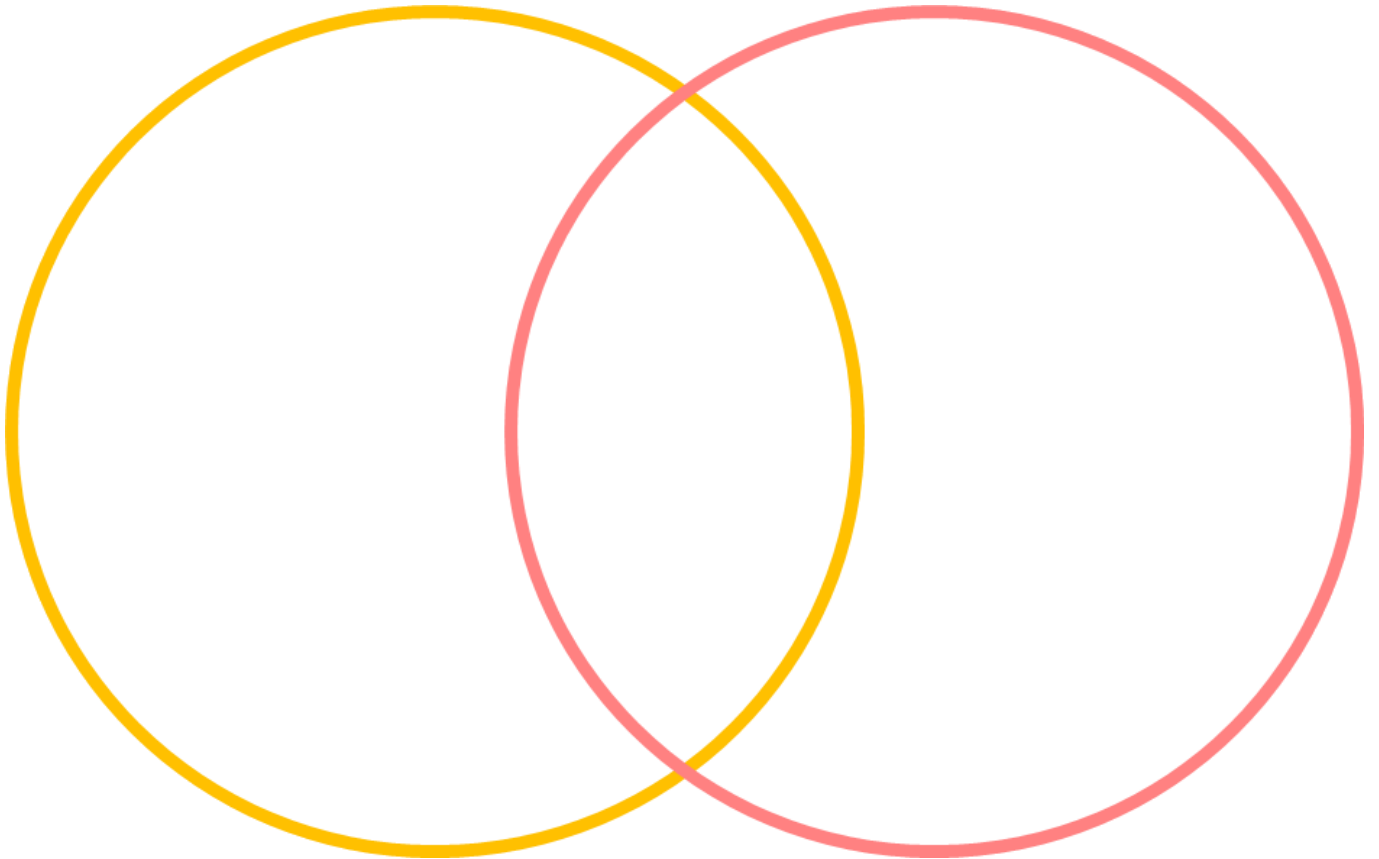
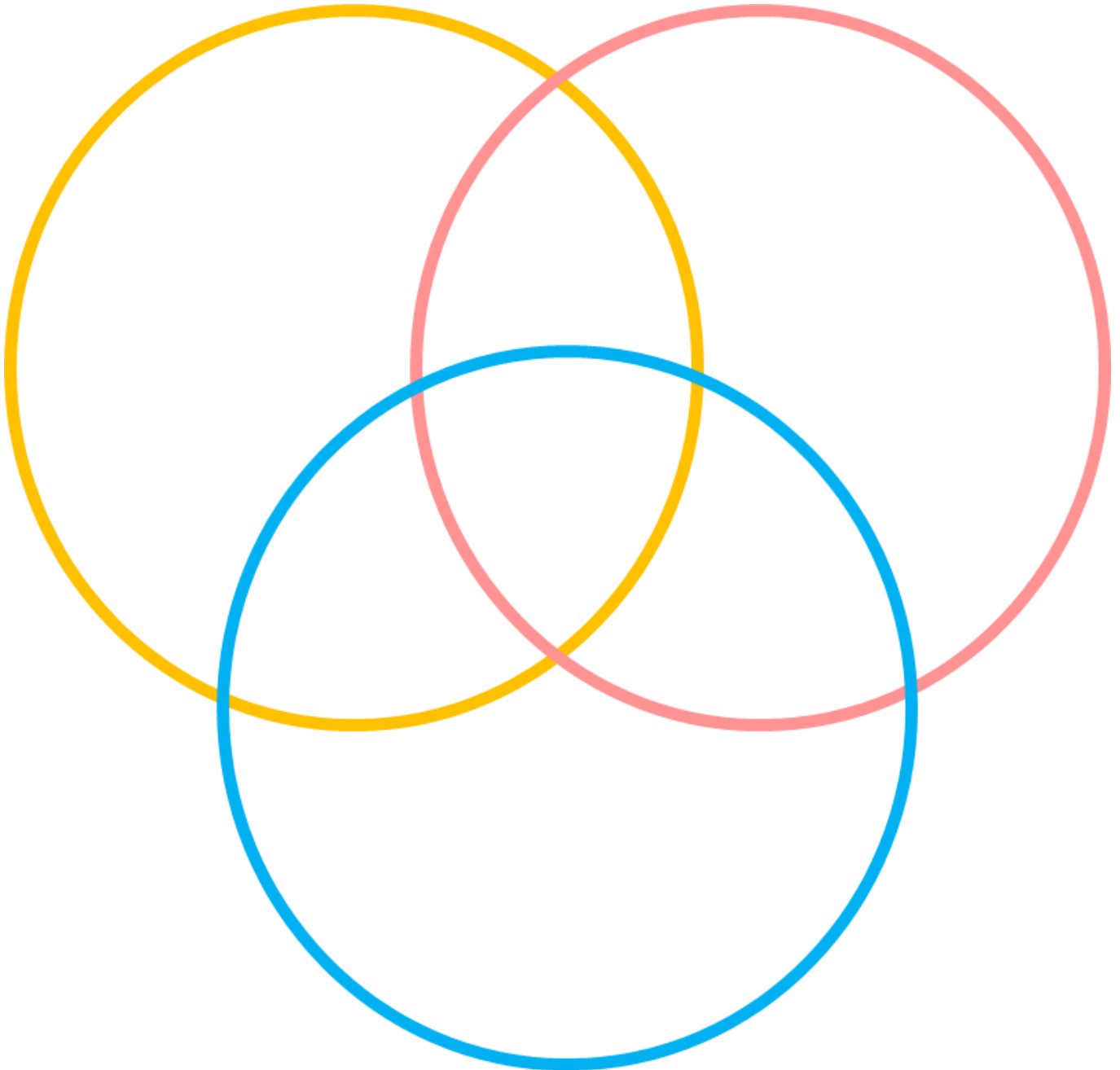


Image of Find a Total Blocks

35 are yellow, 20 are red, 30 are blue, 5- yellow and red, 2 red & blue, 2 - blue & yellow, 6 have only 2 colors.

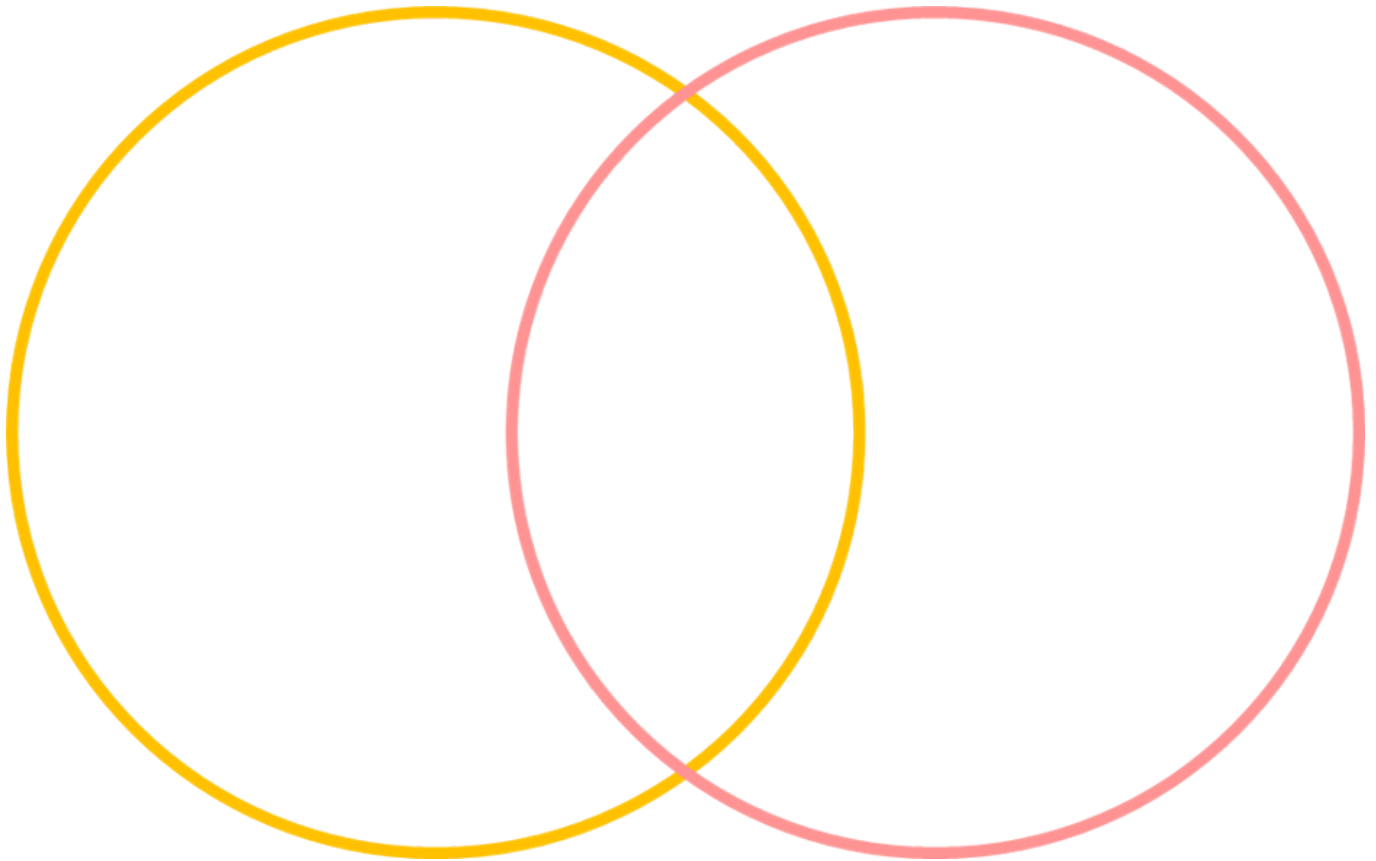


Percent Venn Diagram Image - 1

1. **Only** red (14) vs. red (20)
2. **Only/exactly** red **and** yellow (4) vs. red **and** yellow (1)
3. **Only/exactly** either red **or** yellow (43) vs. either red **or** yellow (45) vs. **either** red **or** yellow **or** both (50)
4. Are not **either** red **or** yellow(27) vs. are not **both** red **and** yellow (72)
5. Red and **one** other color (5) vs. red and other color (6)
6. **Exactly** 2 colors (6) vs. **at least** 2 colors (7)
7. All three (1) and total (77)

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In a class of 60 students, 40% can speak only Hindi, 25% can speak only English, and rest of the students can speak both the languages. How many students can speak English?

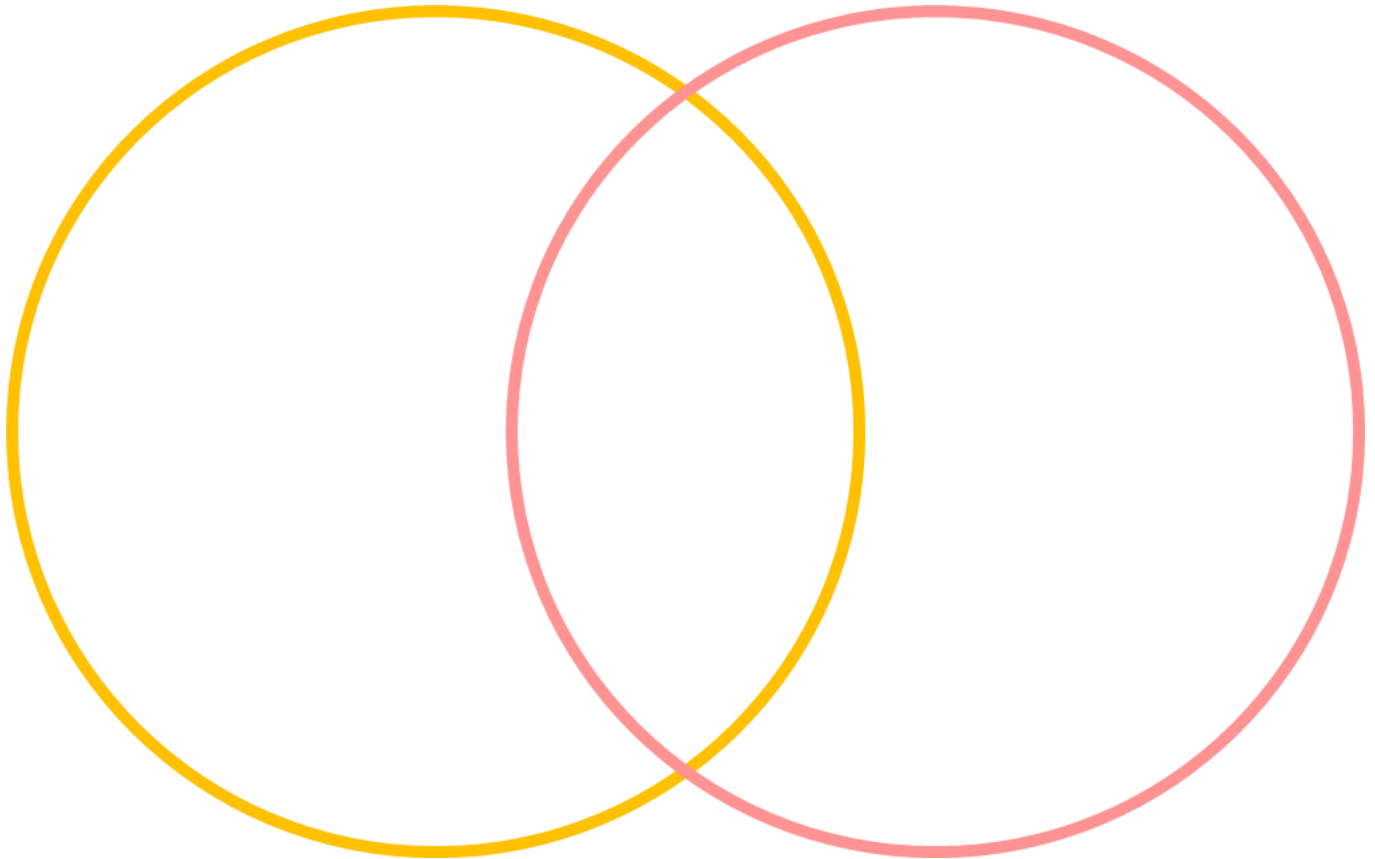


Percent Venn Diagram Image - 2

36

In examination, 65% of the students passed in Mathematics, 48% passed in Physics, and 30% passed in both. What percent of students failed in both the subjects? If there are 200 students, then find the number of failed students.

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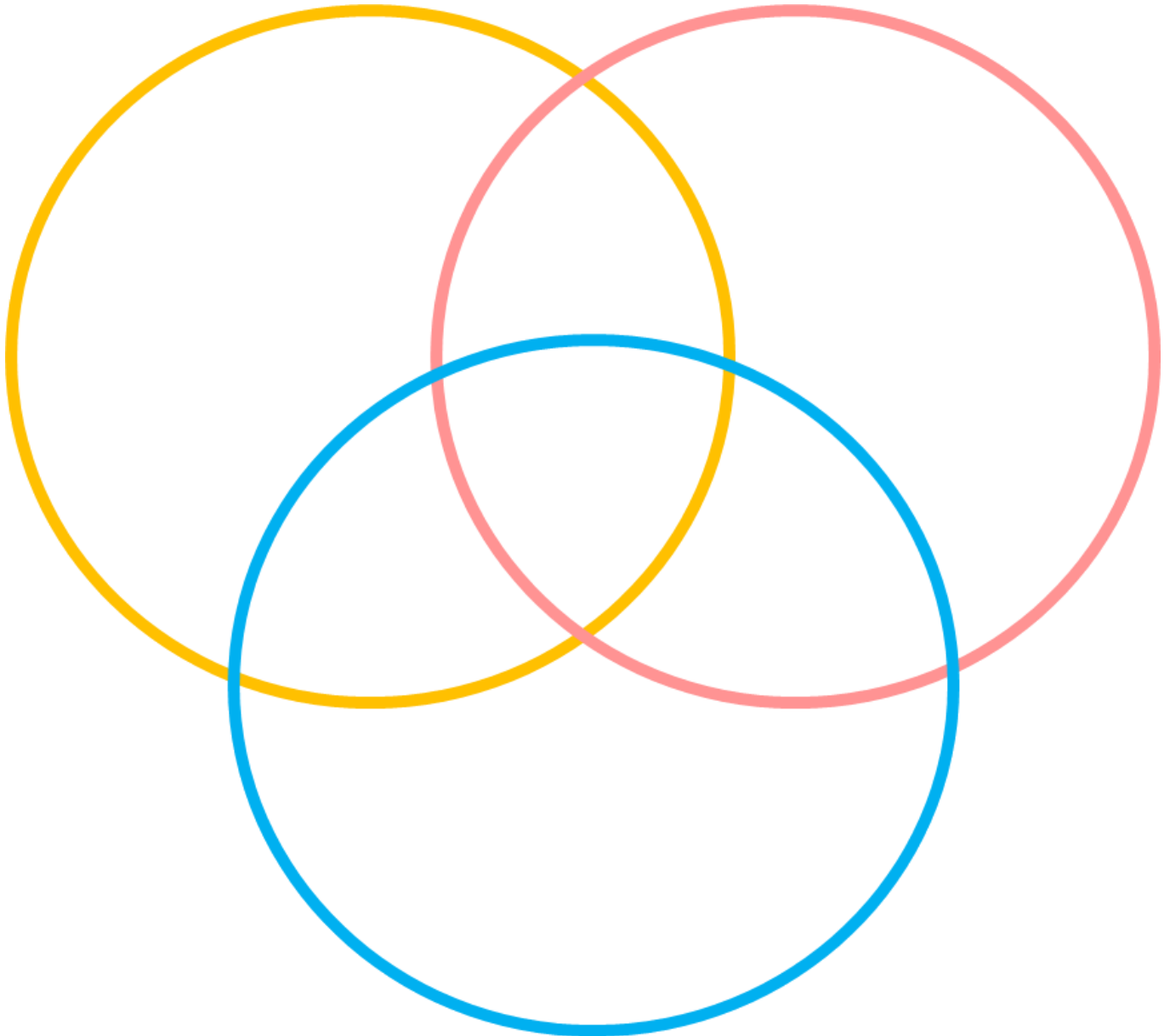


Percent Venn Diagram Image - 3

>

83% passed, 17% or 34 failed

In an examination 20% of the students failed in Math, 15% in English, and 25% in Hindi. If 5% failed Math & English, 10% failed English & Hindi, 15% failed Math and Hindi, and 2% failed all the three subjects, find percent of students who passed in all three subjects.

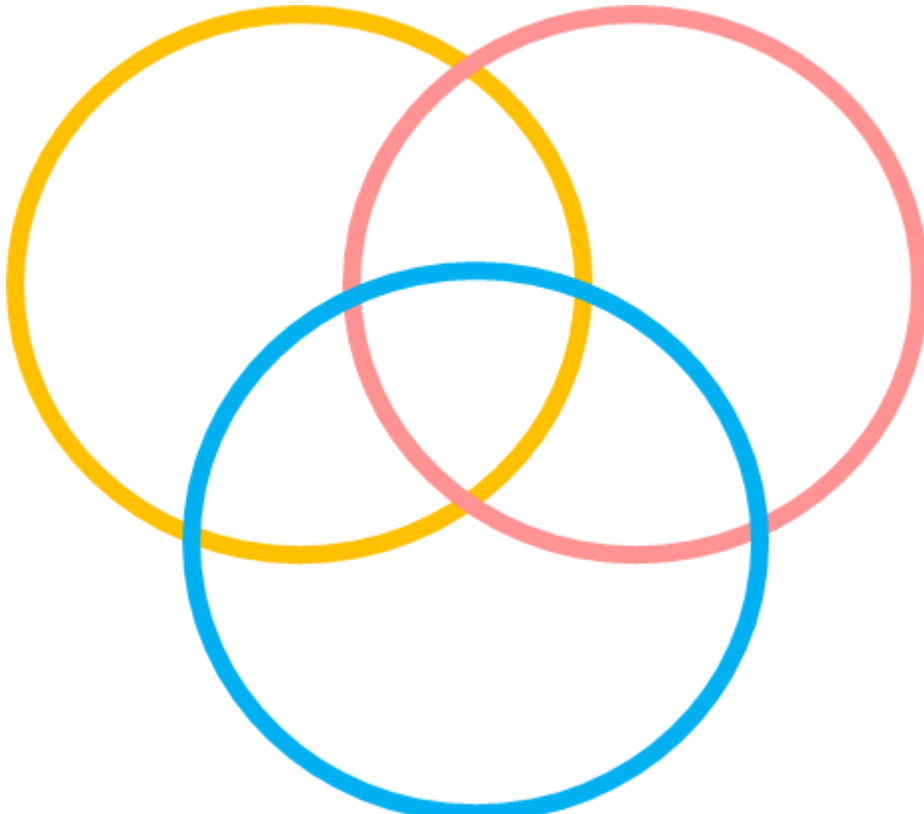


Percent Venn Diagram Image - 4

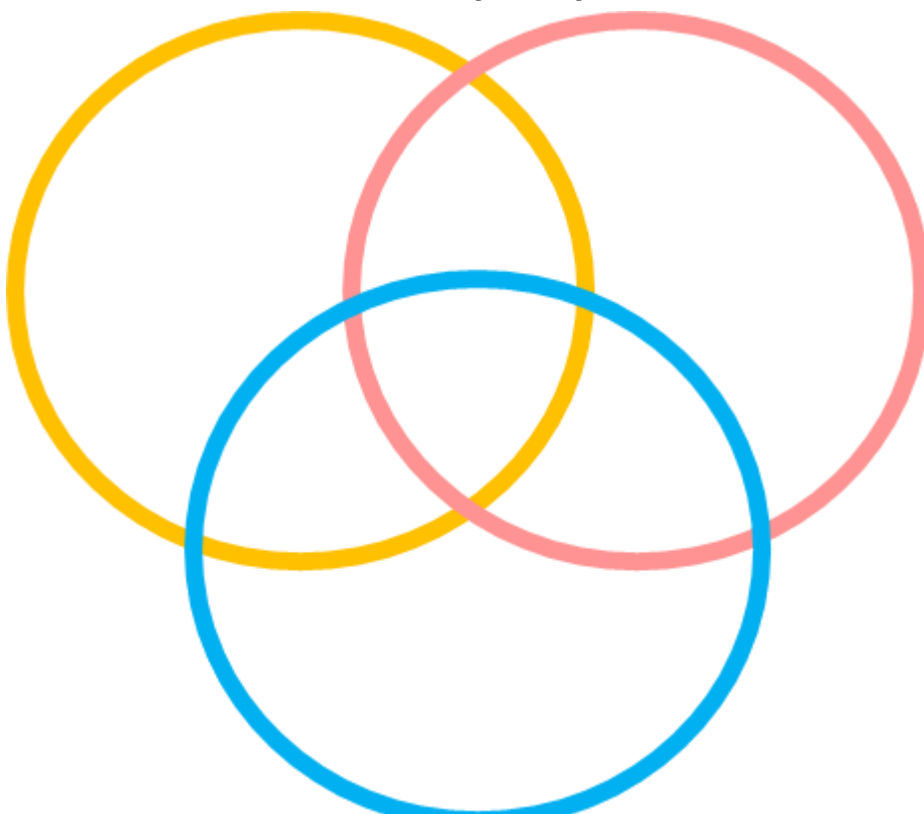
$$100 - 32 = 68\%$$

2400 players are from MP and UP. Each player plays one or more of cricket (C), football (F), hockey (H). 45% players are from MP and remaining from UP. From MP, boys and girls are in ratio 5:4. Of the girls from MP, **20% play only C**, **10% play only F** & 10% play only H. 20% play C & F. 20% play C & H. 10% play F & H. Remaining play all three. Players from UP, boys & girls are in ratio 4:7. Of the girls from UP, 25% play only C, 10% play only F & 8% play only H. 15% play C & F. 10% play C & H. 15% play F & H. How many girls from MP and UP play only either cricket or football?

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Percent Venn Diagram Image - 5



Percent Venn Diagram Image - 6

$$144 + 294 = 438$$

Next Class- Successive %

If salary is first increased by 20% and then decreased by 20%, find the percentage change in salary.

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Prabha spends 50% of monthly income on household items and the remaining is spent- 50% on transport, 25% on entertainment, and 10% on sports. If Rs. 900 is saved every month, what was the monthly income?

-Mayank