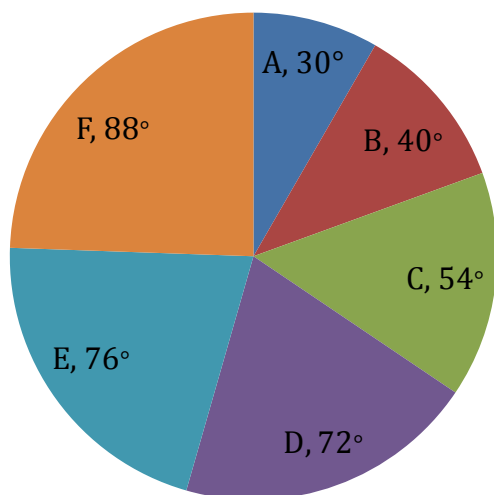


SBI PO PRE 50 DI IMP (Questions)

Directions [1-5] A pie-chart and a table is given below. Pie chart shows the distribution of boys in 6 different schools whereas the table shows the ratio between boys and girls in these schools. Read the following data and find the solution of the given questions?

Division of No. of boys in 6 different school

Total Boys = 18000



Ratio of boys and girl

School	Boy : Girl
A	2 : 3
B	8 : 3
C	4 : 5
D	12 : 13
E	19 : 20
F	5 : 8

Q1. What is the difference of the no. of boys in school A, C & E to the no. of girls in school B and C.

- (a) 3875
- (b) 3900
- (c) 3700
- (d) 3650
- (e) None of these

Q2. What is the ratio of the no. of girls of school D to the no. of boys of school B and C together?

- (a) 38 : 41
- (b) 27 : 31
- (c) 39 : 47
- (d) 41 : 47
- (e) None of these

Q3. What is the average of the girls of school A, E and F?

- (a) 4400
- (b) 4430
- (c) 3800
- (d) 3900
- (e) None of these

Q4. Number of girls in school F is what percent more or less than the number of boys of school D and number of girls in school B together? (approximately)

- (a) 62% more
- (b) 38% more
- (c) 40% more
- (d) 92% more
- (e) 88% more

Q5. If 20% of the girl of school E is left the school and join the school B, now what is the new ratio of girls and boys of school B?

- (a) 31 : 40
- (b) 39 : 38
- (c) 37 : 36
- (d) 8 : 7
- (e) None of these

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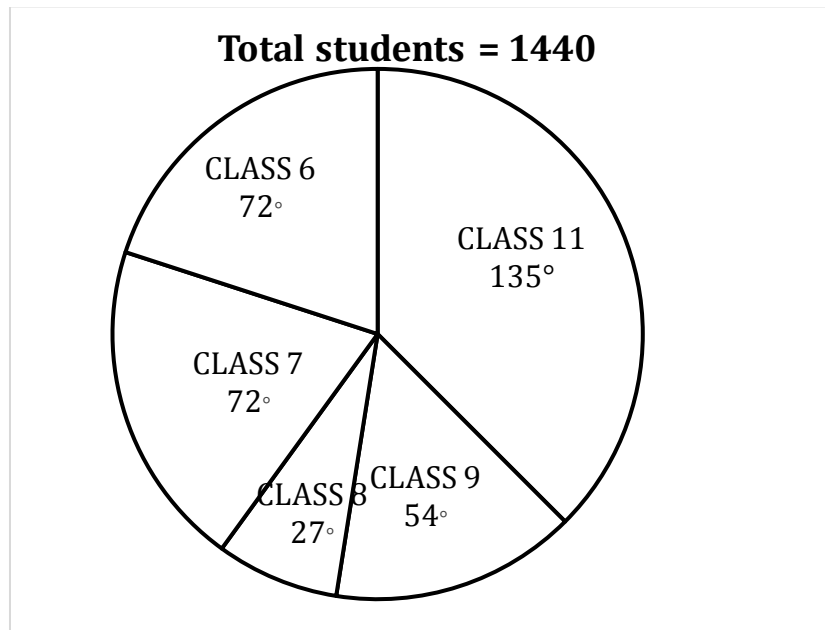
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Directions (6-10): Given below is the pie chart which shows the distribution of students in School 'ABC' in five different class.



Q6. Find the ratio of the number of girls in class 9 to the number of girls in class 7. If 45% of the students in class 9 are girls and 37% of the students in class 7 are boys.

- (a) 11 : 23
- (b) 7 : 13
- (c) 9 : 17
- (d) 15 : 29
- (e) 15 : 28


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Q7. The number of girls in class 11 is what percent of total students in the school if the ratio of boys to girls in class 11 is 13 : 12.

- (a) 18%
- (b) 17%
- (c) 15%
- (d) 10%
- (e) 20%

Q8. If the ratio of passed to failed students in class 9 and 7 are 17 : 7 and 13 : 3 respectively. Then find the ratio of total number of passed student in class 9 and 7 together to number of failed students in both the classes.

- (a) 37 : 23
- (b) 39 : 11
- (c) 43 : 11
- (d) 43 : 13
- (e) 41 : 13

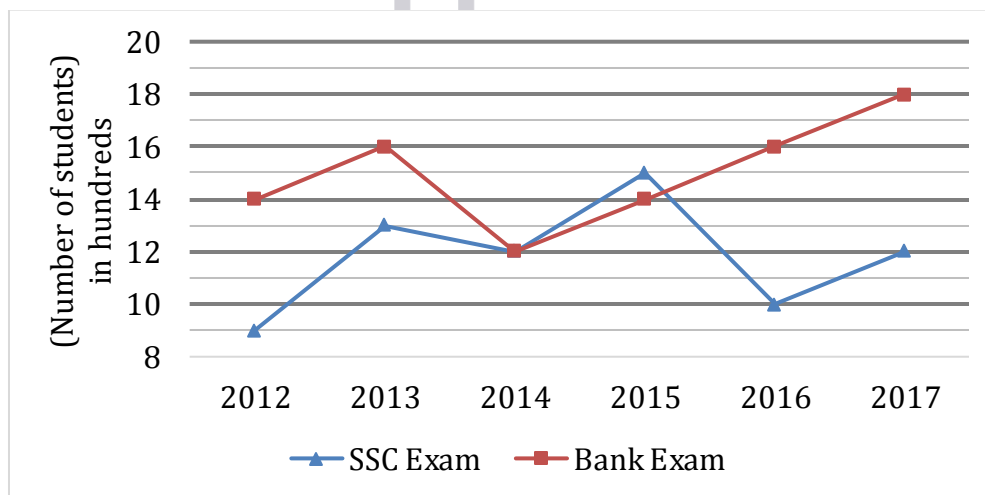
Q9. Total students in class 8 and class 7 together are what percent of the total students in class 6 and class 9 together.

- (a) $78\frac{4}{7}\%$
- (b) $82\frac{3}{4}\%$
- (c) $68\frac{1}{3}\%$
- (d) $72\frac{3}{4}\%$
- (e) $58\frac{1}{3}\%$

Q10. The number of failed students in class 11 is 42 less than the average number of students in class 7, class 8 and class 9. Then find the difference in number of failed and passed students in class 11.

- (a) 236
- (b) 232
- (c) 216
- (d) 224
- (e) 248

Directions (11-15): The line graph given below shows the number of students (in hundreds) who have been selected in Banking exam and in SSC exams from a reputed coaching institute in six different years.



Q11. Find the ratio of the total number of students selected in Banking exam from 2015 to 2017 together to the total number of students selected in SSC exam from 2012 to 2014 together?

- (a) 24 : 17
- (b) 20 : 17
- (c) 22 : 17
- (d) 17 : 24
- (e) 17 : 22

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Q12. The average of the number of students selected in both exams in 2016 is what percent more/less than the average of the number of students selected in both the exams in year 2017?

- (a) $12\frac{1}{2}\%$
- (b) $12\frac{3}{5}\%$
- (c) $12\frac{1}{3}\%$
- (d) $13\frac{1}{3}\%$
- (e) $13\frac{2}{3}\%$

Q13. What is the ratio of total students selected in banking exam from 2013 to 2015 to total students selected in SSC exams from 2013 to that in 2015?

- (a) 115 : 91
- (b) 21 : 20
- (c) 125 : 91
- (d) 91 : 125
- (e) 10 : 7

Q14. Every year 20% of the students who passed the Banking exam also passed the SSC exam then, find the average of number of students who passed both the exam from 2014 to 2016?

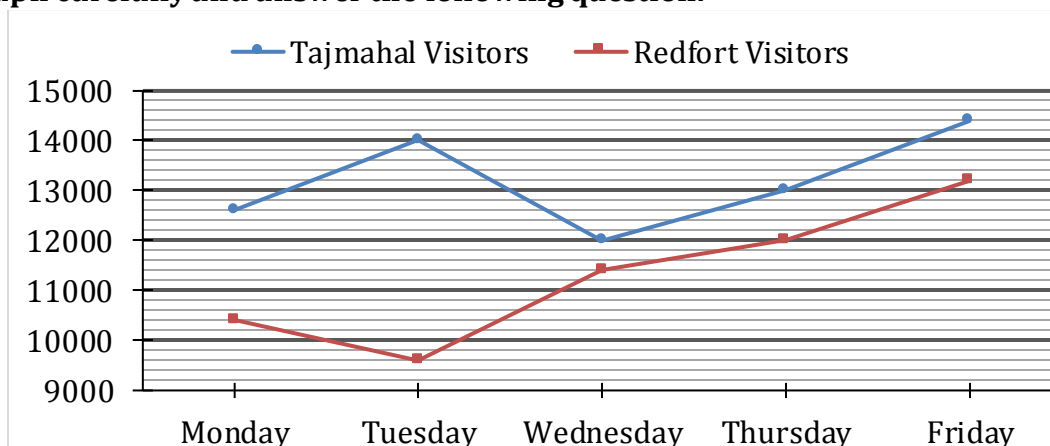
- (a) 260
- (b) 275
- (c) 300
- (d) 320
- (e) 280

Q15. Find the difference between total number of students who passed bank exam from 2013 to 2015 and the total number of students who passed the SSC exam from 2014 to 2016?

- (a) 400
- (b) 450
- (c) 500
- (d) 520
- (e) 550

Directions (16-20): The following line graph shows the total number of Taj Mahal and Red fort visitors each day during 5 days of week.

Study the graph carefully and answer the following question.



Q16. Find the ratio of Red fort visitors on Tuesday, Thursday, Friday to Tajmahal visitor on Monday, Wednesday and Thursday

- (a) 37 : 19
- (b) 11 : 13
- (c) 19 : 25
- (d) 87 : 94
- (e) 17 : 23

Q17. Redfort visitors on Tuesday and Wednesday together are what percent less than Tajmahal visitors on the same days together?

- (a) $19\frac{3}{13}\%$
- (b) $13\frac{1}{3}\%$
- (c) $27\frac{1}{2}\%$
- (d) 32%
- (e) 36%

Q18. If ratio of male to female visitors of Tajmahal is 3 : 2 on each day and male to female visitor of Red fort are in ratio 7 : 3 each day then find the difference of male visitor and female visitor on Monday (considering redfort and Tajmahal together)

- (a) 8020
- (b) 5860
- (c) 6680
- (d) 7840
- (e) 8150

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Q19. Find the average number of Taj mahal visitors on these 5 days.

- (a) 14000
- (b) 13200
- (c) 13100
- (d) 12900
- (e) None of these

Q20. The average of Redfort and Taj mahal visitors on Wednesday are how much percent less than average of Taj mahal and Redfort visitor on Thursday.

- (a) $12\frac{1}{2}\%$
- (b) $8\frac{1}{3}\%$
- (c) $16\frac{1}{3}\%$
- (d) $6\frac{2}{5}\%$
- (e) $5\frac{2}{5}\%$

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Direction (21–25) : Given below table shows number of bank 'PO' preliminary exams appeared by six candidates and number of preliminary exams cleared out of those appeared by these candidates. Some data are missing, Read the data carefully and answer the questions.

Candidates	Number of bank 'PO' preliminary exams appeared	Number of preliminary exams cleared (out of appeared)
Ayush	24	—
Veer	—	12
Harsh	35	—
Adarsh	48	18
Sumit	—	20
Sandeep	18	—

Q21. If number of preliminary exams appeared by Veer is 20% more than that of Harsh appeared, then find percentage of exam cleared by Veer?

- (a) $28\frac{4}{7}\%$
- (b) $22\frac{4}{7}\%$
- (c) $18\frac{4}{7}\%$
- (d) $16\frac{4}{7}\%$
- (e) 10%

Q22. Total number of preliminary exams in which Sumit appeared is 10% more than that of Veer appeared. If Sumit appeared in four less exams than Adarsh, then find number of exams, which Veer did not clear?

- (a) 24
- (b) 32
- (c) 36
- (d) 44
- (e) 28

Q23. If percentage of preliminary exams cleared by Ayush is $41\frac{2}{3}\%$, then find number of exams in which Aysuh did not clear are what percent of total exams in which Harsh appeared?

- (a) 35%
- (b) 44%
- (c) 48%
- (d) 40%
- (e) 50%

Q24. If number of preliminary exams in which Sumit appeared is equal to 12 more than average number of preliminary exams in which Aysuh & Adarsh appeared, then find ratio of number of preliminary exams not cleared by Sumit to that of not cleared by Adarsh?

- (a) 14 : 17
- (b) 14 : 15
- (c) 13 : 15
- (d) 3 : 5
- (e) 4 : 5

Q25. Total number of preliminary exams in which Sumit appeared is 37.5% more than that of Aysuh appeared, while total number of exams in which Veer appeared is 20% more than that of Harsh appeared. If Sandeep cleared 50% of appeared exams, then find number of exams cleared by Sandeep is what percent of total number of preliminary exams in which all six appeared?

- (a) 3.5%
- (b) 4.5%
- (c) 2.5%
- (d) 1.5%
- (e) 5%

Directions (26-30): Study the table carefully and answer the following questions. Table given below shows the total number of students in five different classes in which some students take part in drama & some in painting & some students do not take part in any event.

Class	Total number of students	Number of students who do not take part	Ratio of number of students who take part in (Drama : Painting)
6 th	320	103	3 : 4
7 th	480	220	5 : 8
8 th	240	105	2 : 1
9 th	510	210	3 : 2
10 th	250	120	8 : 5

Q26. What is the difference between number of students who participate in Drama from class 7th and 8th together and number of students who participate in painting from class 9th and 10th together?

- (a) 20
- (b) 30
- (c) 35
- (d) 25
- (e) 40

Q27. Total number of students who do not take part from class 7th & 10th together is what percent more or less than total number of students who take part in painting from class 6th & 7th together? (approx.)

- (a) 15%
- (b) 30%
- (c) 20%
- (d) 40%
- (e) 25%

Q28. What is the average of total number of students who take part in drama from class 6th, 8th and 9th ?

- (a) 169
- (b) 121
- (c) 127
- (d) 138
- (e) 148

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Q29. What is the ratio of total number of students who take part in Drama from class 8th & 9th together to total student who take part in painting from class 6th & 10th together ?

- (a) 8 : 5
- (b) 5 : 3
- (c) 127 : 87
- (d) 133 : 87
- (e) 45 : 29

Q30. If number of students who do not take part in any activity from class 9th is increased by 50% then find number of students taking part in Drama is decreased by what percent if the ratio(Drama : Painting) remains same ?

- (a) 40%
- (b) 45%
- (c) 35%
- (d) 30%
- (e) 55%

Directions (31- 35): Table given below shows number of cars manufactured by two companies in five different years and percentage of cars sold out of total cars manufactured. Study the data carefully and answer the following questions.

	TATA		MARUTI	
	Manufactured	Cars sold (in %)	Manufactured	Cars sold (in %)
2011	4500	42%	5000	80%
2012	5200	65%	6400	55%
2013	4800	40%	7500	45%
2014	9600	$33\frac{1}{3}\%$	14400	60%
2015	3600	75%	7800	22%

Q31. Total number of cars not sold by MARUTI in 2014 is what percent of total number of cars not sold by TATA in same year?

- (a) 80%
- (b) 105%
- (c) $111\frac{1}{9}\%$
- (d) 90%
- (e) $122\frac{2}{9}\%$

Q32. Total number of cars sold by MARUTI in 2015 is what percent less than total number of cars not sold by same company in 2013?

- (a) 41.6%
- (b) 58.4%
- (c) 44.6%
- (d) 55.4%
- (e) 52.4%

Q33. Find the ratio between total number of cars sold by MARUTI in 2011 and 2012 together to total number of cars not sold by TATA in 2012 and 2013 together?

- (a) 8 : 5
- (b) 32 : 15
- (c) 16 : 5
- (d) 16 : 15
- (e) 75 : 47

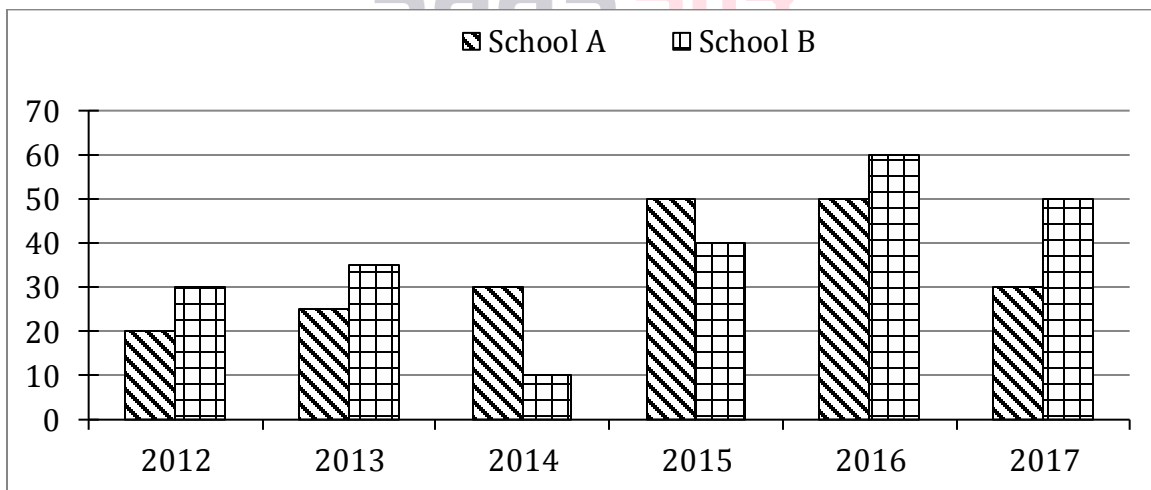
Q34. Find the average number of cars sold by TATA in 2011, 2013 and 2015 together?

- (a) 2250
- (b) 2230
- (c) 2210
- (d) 2190
- (e) 2170

Q35. Find the difference between total number of cars sold by Maruti in 2012 and total number of cars not sold by Tata in same year?

- (a) 140
- (b) 1060
- (c) 1700
- (d) 500
- (e) 1800

Directions (36-40): Given bar-graph shows the number of students passed (in thousand) from two different schools over six different years.



Q36. Find the respective ratio between number of student passed from School A in the year 2016 to number of student passed from school B in the year 2013.

- (a) 5 : 4
- (b) 4 : 5
- (c) 7 : 10
- (d) 10 : 7
- (e) 3 : 2

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Q37. Find the difference between total number of students passed from both the school in the year 2016 together and the total number of student passed in year 2014 from both the schools together?

- (a) 70,000
- (b) 60,000
- (c) 50,000
- (d) 40,000
- (e) 80,000

Q38. Out of total students in school A in year 2014, 60% are passed while out of total students in same school in year 2016, 80% are passed in 2016. Find number of student failed in 2016 from school A is what percent of the number of students failed in 2014 from school A?

- (a) 37.5%
- (b) 62.5%
- (c) 70%
- (d) 30%
- (e) $83\frac{1}{3}\%$

Q39. Number of students passed from school B in year 2017 is approximately what percent of the total number of student passed from school A over six years together.

- (a) 30 %
- (b) 24%
- (c) 20%
- (d) 35%
- (e) 40%


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Q40. What is the respective ratio of total number of students passed from both schools together in 2016, 2017 and 2014?

- (a) 5 : 4 : 3
- (b) 11 : 2 : 1
- (c) 5 : 4 : 2
- (d) 11 : 8 : 6
- (e) 11 : 8 : 4

Directions (41-45): Data given below shows number of girls and boys in two different classes in a school. Study the data carefully and answer the following question.

No. of boys in class 'X' is equal to number of girls in class 'Y'. Number of boys in class 'Y' is 10 more than that of boys in class 'X'. Ratio between number of girls in class 'X' to class 'Y' is 1 : 2. Total number of students in class 'Y' is 40% more than that in class 'X'.

→ No. of mentors in class 'X' = 40% of boys in class 'X'

→ No. of mentors in class 'Y' = 60% of girls in class 'Y'

Q41. Total number of boys in class 'Y' is what percent more than total number of girls in class X ?

- (a) 120%
- (b) 220%
- (c) 20%
- (d) 60%
- (e) 160%

Q42. Total number of mentors in class 'Y' is how much more than that in class 'X'.

- (a) 20
- (b) 40
- (c) 60
- (d) 80
- (e) 100

Q43. Boys in class 'Z' is 40% more than boys in class 'Y' while girls in class 'Z' is 20% more than girls in class 'X'. Find total number of students in class 'Z'.

- (a) 284
- (b) 194
- (c) 224
- (d) 204
- (e) 214

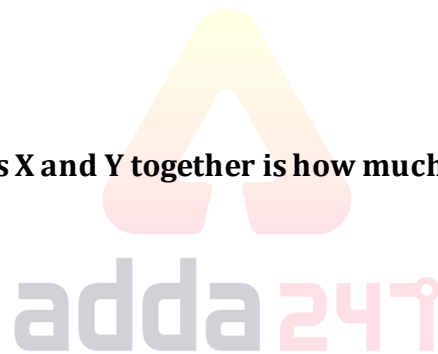
Q44. Total number of boys in class X and Y together is how much more than total number of girls in class X and Y together.

- (a) 180
- (b) 120
- (c) 90
- (d) 30
- (e) 60

Q45. Total girls passed in class 'X' and class 'Y' are 20% and 45% respectively. Find total number of girls who failed?

- (a) 105
- (b) 85
- (c) 95
- (d) 115
- (e) 125

Direction (46-50): - There are three institute i.e. A, B and C. Girls in institute B is same as Boys in institute C. Girls in institute C is 100% more than that of in institute A while ratio between boys in institute A to girls in institute B is 1 : 2. Boys in institute A is 25% less than that of in institute B. Total students in all three institute together is 2600 and Girls institute C is 240 more than that in institute B.



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Q46. Find the ratio between total students in institute A to total students in institute B?

- (a) 1 : 2
- (b) 2 : 1
- (c) 4 : 3
- (d) 3 : 4
- (e) 2 : 3

Q47. Girls in institute C is what percent more than that in institute B?

- (a) 50%
- (b) 100%
- (c) 150%
- (d) 200%
- (e) 250%

Q48. Total girls in all three institute is how much more/less than total number of boys in all three institute together?

- (a) 520
- (b) 480
- (c) 440
- (d) 400
- (e) 360

Q49. Boys and girls in institute 'D' is 25% and 50% more than that in institute 'C' respectively. Find total number of students in institute 'D'?

- (a) 1620
- (b) 1680
- (c) 1740
- (d) 1800
- (e) 1860

Q50. Girls in institute A is what percent of the boys in institute C?

- (a) 0%
- (b) 25%
- (c) 50%
- (d) 75%
- (e) 100%



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1. Ans.(a)

Sol.

$$\text{Number of boys in A, C \& E} = \frac{30}{360} \times 18000 + \frac{54}{360} \times 18000 + \frac{76}{360} \times 18000 = 1500 + 2700 + 3800 = 8000$$

$$\text{Number of Girls in B and C} = \frac{40}{360} \times \frac{18000}{8} \times 3 + \frac{54}{360} \times \frac{18000}{4} \times 5 = 750 + 3375 = 4125$$

$$\text{Required difference} = 8000 - 4125 = 3875$$

S2. Ans.(c)

Sol.

$$\text{Number of Girls in school D} = \frac{72}{360} \times \frac{18000}{12} \times 13 = 3900$$

$$\text{Number of Boys in B \& C} = \frac{40}{360} \times 18000 + \frac{54}{360} \times 18000 = 2000 + 2700 = 4700$$

$$\text{Required ratio} = 3900 : 4700 = 39 : 47$$

S3. Ans.(b)

Sol.

Number of Girls in A, E and F

$$= \frac{30}{360} \times \frac{18000}{2} \times 3 + \frac{76}{360} \times \frac{18000}{19} \times 20 + \frac{88}{360} \times \frac{18000}{5} \times 8$$

$$= 2250 + 4000 + 7040$$

$$= 13290$$

$$\text{Required average} = \frac{13290}{3} = 4430$$

S4. Ans.(a)**Sol.**

$$\text{Number of Girls in F} = \frac{88}{360} \times \frac{18000}{5} \times 8 = 7040$$

$$\text{Number of Boys of D + No. of Girls of B} = \frac{72}{360} \times 18000 + \frac{40}{360} \times \frac{18000}{8} \times 3 = 3600 + 750 = 4350$$

$$\text{Required \%} = \frac{(7040 - 4350)}{4350} \times 100 \approx 62\%$$

S5. Ans.(a)**Sol.**

$$\text{No. 20\% of the girls of school E} = \frac{20}{100} \times \frac{76}{360} \times \frac{18000}{19} \times 20 = 800$$

$$\text{New number of girls in school B} = \frac{40}{360} \times \frac{18000}{8} \times 3 + 800 = 750 + 800 = 1550$$

$$\text{Number of boys in school B} = \frac{40}{360} \times 18000 = 2000$$

$$\text{Required ratio } 1550 : 2000 = 31 : 40$$

S6. Ans.(e)**Sol.**

$$\text{Required ratio} = \frac{\frac{1440}{360} \times 54 \times \frac{45}{100}}{\frac{1440}{360} \times 72 \times \frac{63}{100}} = \frac{54 \times 45}{72 \times 63} = \frac{15}{28}$$

S7. Ans.(a)**Sol.**

$$\begin{aligned} \text{Required percent} &= \frac{\frac{1440}{360} \times 135 \times \frac{12}{25}}{1440} \times 100 \\ &= \frac{135 \times 12 \times 100}{360 \times 25} = 18\% \end{aligned}$$

S8. Ans.(d)**Sol.**

Total number of students in class 9

$$= \frac{1440}{360} \times 54 = 216$$

Total number of students in class 7

$$= \frac{1440}{360} \times 72 = 288$$

Number of passed students in class 9 and class 7 together

$$\begin{aligned} &= \frac{216 \times 17}{24} + \frac{288 \times 13}{16} \\ &= 153 + 234 = 387 \end{aligned}$$

Number of failed students in class 9 and class 7 together

$$= 504 - 387 = 117$$

$$\text{Required ratio} = \frac{387}{117} = \frac{43}{13}$$

S9. Ans.(a)**Sol.**

$$\text{Required percent} = \frac{72 + 27}{72 + 54} \times 100 = 78\frac{4}{7}\%$$



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S10. Ans.(c)**Sol.**

Average of students in class 7, 8 and 9

$$= \frac{\frac{1440}{360} \times 72 + \frac{1440}{360} \times 27 + \frac{1440}{360} \times 54}{3}$$

$$= 204$$

The number of failed students in Class 11

$$= 204 - 42 = 162$$

$$\text{Total student in class 11} = \frac{1440}{360} \times 135 = 540$$

Passed students in class 11

$$= 540 - 162 = 378$$

$$\text{Required difference} = 378 - 162 = 216$$

S11. Ans.(a)**Sol.**

$$\text{Required ratio} = \frac{(1400 + 1600 + 1800)}{(900 + 1300 + 1200)} = \frac{24}{17}$$

S12. Ans.(d)**Sol.**

$$\text{Required \%} = \frac{\left(\frac{1800 + 1200}{2}\right) - \left(\frac{1600 + 1000}{2}\right)}{\left(\frac{1800 + 1200}{2}\right)} \times 100$$

$$= \frac{200}{1500} \times 100 = 13\frac{1}{3}\%$$

**S13. Ans.(b)****Sol.**

$$\text{Required ratio} = \frac{1600 + 1200 + 1400}{1300 + 1200 + 1500} = 21 : 20$$

S14. Ans.(e)**Sol.**

$$\text{Required average} = \frac{\frac{1200 \times 20}{100} + \frac{1400 \times 20}{100} + \frac{1600 \times 20}{100}}{3}$$

$$= \frac{240 + 280 + 320}{3} = 280$$

S15. Ans.(c)**Sol.**

$$\text{Required difference} = (1600 + 1200 + 1400) - (1200 + 1500 + 1000)$$

$$= 4200 - 3700 = 500$$

S16. Ans.(d)**Sol.**Red fort visitors on Tuesday, Thursday and Friday = $9600 + 12000 + 13200 = 34800$ Taj mahal visitors on Monday, Wednesday and Thursday = $12600 + 12000 + 13000 = 37600$

$$\text{Required ratio} = \frac{34800}{37600} = \frac{31}{47} = 31 : 47$$

S17. Ans.(a)**Sol.**Red fort visitors on Tuesday and Wednesday = $9600 + 11400 = 21000$ Taj mahal visitors on Tuesday and Wednesday = $14000 + 12000 = 26000$

$$\text{Required percentage} = \frac{26000 - 21000}{26000} \times 100 = 19 \frac{3}{13} \%$$

S18. Ans.(c)**Sol.**

Total Tajmahal visitor on Monday = 12600

$$\text{So male Tajmahal visitor} = \frac{3}{5} \times 12600 = 7560$$

$$\text{So female Tajmahal visitors} = 12600 - 7560 = 5040$$

Redfort visitors on Monday = 10400

$$\text{Male Redfort visitor on Monday} = 10400 \times \frac{7}{10} = 7280$$

$$\text{Female Redfort visitor on Monday} = 10400 - 7280 = 3120$$

$$\text{So total male visitor on Monday} = 7560 + 7280 = 14840$$

$$\text{Total female visitor on Monday} = 5040 + 3120 = 8160$$

$$\text{So Required difference} = 14840 - 8160 = 6680$$

S19. Ans.(b)**Sol.**

$$\text{Required average} = \frac{12600 + 14000 + 12000 + 13000 + 14400}{5} = 13200$$

S20. Ans.(d)**Sol.**

$$\text{Average of visitors on Wednesday} = \frac{12000 + 11400}{2} = 11700$$

$$\text{Average of visitors on Thursday} = \frac{13000 + 12000}{2} = 12500$$

$$\text{Required percentage} = \frac{12500 - 11700}{12500} \times 100 = 6 \frac{2}{5} \%$$

S21. Ans(a)**Sol.**

$$\text{Number of exams appeared by Veer} = 35 \times \frac{120}{100} = 42$$

$$\text{Required percentage} = \frac{12}{42} \times 100 = 28 \frac{4}{7} \%$$

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S22. Ans(e)**Sol.**Let total number of exams in which Veer appeared = $10x$ So, total number of exams in which Sumit appeared = $10x \times \frac{110}{100} = 11x$

ATQ –

$$11x + 4 = 48$$

$$x = 4$$

So, number of exams, which Veer did not clear = $10 \times 4 - 12 = 28$ **S23. Ans(d)****Sol.**Exams which are not cleared by Ayush = $24 \times \left(100 - \frac{125}{3}\right) \times \frac{1}{100} = 14$ Required percentage = $\frac{14}{35} \times 100 = 40\%$ **S24. Ans(b)****Sol.**Number of exams in which Sumit appeared = $\frac{24+48}{2} + 12 = 48$ Exams which are not cleared by Sumit = $48 - 20 = 28$ Exams which are not cleared by Adarsh = $48 - 18 = 30$ Required ratio = $\frac{28}{30} = 14 : 15$ **S25. Ans(b)****Sol.**Total number of exams in which Sumit appeared = $24 \times \frac{11}{8} = 33$ Total number of exams in which Veer appeared = $35 \times \frac{120}{100} = 42$ Total exams in which all six appeared = $24 + 42 + 35 + 48 + 33 + 18 = 200$ Number of exams cleared by Sandeep = $18 \times \frac{50}{100} = 9$ Required percentage = $\frac{9}{200} \times 100 = 4.5\%$ **S26. Ans.(a)****Sol.**Number of Students who participate in Drama from class 7th & 8th together

$$= (480 - 220) \times \frac{5}{13} + (240 - 105) \times \frac{2}{3}$$

$$= 100 + 90$$

$$= 190$$

Number of Students who take part in Painting from class 9th & 10th together

$$= (510 - 210) \times \frac{2}{5} + (250 - 120) \times \frac{5}{13}$$

$$= 120 + 50$$

$$= 170$$

Required difference = $190 - 170 = 20$

S27. Ans.(c)**Sol.**Total number of students who do not take part from class 7th and 10th together = 220 + 120 = 340Total students who take part in painting from class 6th & 7th together

$$= (320 - 103) \times \frac{4}{7} + (480 - 220) \times \frac{8}{13}$$

$$= 124 + 160 = 284$$

$$\text{Required percentage} = \frac{340 - 284}{284} \times 100 \approx 20\%$$

S28. Ans.(b)**Sol.**

$$\text{Required average} = \left(\frac{1}{3}\right) \left[(320 - 103) \times \frac{3}{7} + (240 - 105) \times \frac{2}{3} + (510 - 210) \times \frac{3}{5} \right]$$

$$= \frac{1}{3} [93 + 90 + 180] = 121$$

S29. Ans.(e)**Sol.**

$$\text{Required ratio} = \frac{(240 - 105) \times \frac{2}{3} + (510 - 210) \times \frac{3}{5}}{(320 - 103) \times \frac{4}{7} + (250 - 120) \times \frac{5}{13}}$$

$$= \frac{90 + 180}{124 + 50} = \frac{270}{174} = 45 : 29$$

S30. Ans.(c)**Sol.**Total new students from class 9th who do not take part in any activity = $210 \times \frac{150}{100} = 315$.

Total student taking part in Drama previously

$$= (510 - 210) \times \frac{3}{5} = 180$$

Total student taking part in Drama now

$$= (510 - 315) \times \frac{3}{5} = 117$$

$$\text{Required percentage} = \frac{180 - 117}{180} \times 100 = 35\%$$

S31. Ans.(d)**Sol.**

$$\text{Number of cars not sold by Maruti in 2014} = 14400 \times \frac{40}{100} = 5760$$

$$\text{Number of cars not sold by Tata in 2014} = 9600 \times \frac{200}{300} = 6400$$

$$\text{Required \%} = \frac{5760}{6400} \times 100 = 90\%$$

S32. Ans.(b)**Sol.**

$$\text{Total number of cars sold by MARUTI in 2015} = 7800 \times \frac{22}{100} = 1716$$

$$\text{Total number of cars not sold by MARUTI in 2013} = 7500 \times \frac{55}{100} = 4125$$

$$\text{Required \%} = \frac{4125 - 1716}{4125} \times 100 = \frac{2409}{4125} \times 100 = 58.4\%$$

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S33. Ans.(a)**Sol.**

$$\begin{aligned} \text{Total number of cars sold by MARUTI in 2011 and 2012 together} &= 5000 \times \frac{80}{100} + 6400 \times \frac{55}{100} \\ &= 4000 + 3520 = 7520 \end{aligned}$$

$$\begin{aligned} \text{Total number of cars not sold by TATA in 2012 and 2013 together} &= 5200 \times \frac{35}{100} + 4800 \times \frac{60}{100} \\ &= 1820 + 2880 = 4700 \end{aligned}$$

$$\text{Required Ratio} = \frac{7520}{4700} = \frac{8}{5}$$

S34. Ans.(e)**Sol.**

$$\begin{aligned} \text{Total number of cars sold by TATA in 2011, 2013 and 2015 together} &= 4500 \times \frac{42}{100} + 4800 \times \frac{40}{100} + \\ &3600 \times \frac{75}{100} \end{aligned}$$

$$= 1890 + 1920 + 2700 = 6510$$

$$\text{Required average} = \frac{6510}{3} = 2170$$

S35. Ans.(c)**Sol.**

Number of cars sold by Maruti in 2012

$$= \frac{6400 \times 55}{100} = 3520$$

Number of cars not sold by Tata in 2012

$$= \frac{5200 \times 35}{100} = 1820$$

$$\text{Required Difference} = 3520 - 1820 = 1700$$

S36. Ans.(d)**Sol.**

$$\text{Required ratio} = \frac{50,000}{35,000} = \frac{10}{7}$$

S37. Ans.(a)**Sol.**

$$\text{Total students passed in 2016} = 50,000 + 60,000 = 1,10,000$$

$$\text{Total students passed in 2014} = 30,000 + 10,000 = 40,000$$

$$\text{Required Difference} = 1,10,000 - 40,000 = 70,000$$

S38. Ans.(b)**Sol.**

$$\text{Passed student in school A in 2014} = 30,000$$

$$\text{Failed student} = \frac{30,000}{60} \times 40 = 20,000$$

$$\text{Passed student in school A in 2016} = 50,000$$

$$\text{Failed student} = \frac{50,000}{80} \times 20 = 12,500$$

$$\text{Required \%} = \frac{12,500}{20,000} \times 100 = 62.5\%$$

S39. Ans.(b)**Sol.**

$$\text{Required \%} = \frac{50}{(20+25+30+50+50+30)} \times 100$$

$$= \frac{50}{205} \times 100 \approx 24\%$$

S40. Ans.(e)**Sol.**

$$\text{Required Ratio} \rightarrow (50,000 + 60,000) : (30,000 + 50,000) : (30000+10000)$$

$$\Rightarrow 11 : 8 : 4$$

Solutions (41-45)

Let no. of boys in class 'X' = 100x

No. of girls in class 'Y' = 100x

No. of boys in class 'Y' = 100x + 10

No. of girls in class X = $\frac{100x}{2} = 50x$

Total no. of students in class 'X' = 100x + 50x = 150x

Total no. of students in class 'Y' = 100x + 100x + 10 = 200x + 10

ATQ,

$$\frac{200x+10}{150x} = \frac{140}{100}$$

$$\Rightarrow 200x + 10 = 210x$$

$$\Rightarrow x = 1$$

X		Y	
Boys	Girls	Boys	Girls
100	50	110	100

$$\text{Mentor in class X} = \frac{40}{100} \times 100 = 40$$

$$\text{Mentor in class Y} = \frac{60}{100} \times 100 = 60$$

**S41. Ans.(a)****Sol.**

$$\text{Required \%} = \frac{110-50}{50} \times 100$$

$$= \frac{60}{50} \times 100 = 120\%$$

S42. Ans.(a)**Sol.**

$$\text{Required difference} = 60 - 40 = 20$$

S43. Ans.(e)**Sol.**

Total no. of students in Class 'Z'

$$= \frac{140}{100} \times 110 + \frac{120}{100} \times 50$$

$$= 154 + 60 = 214$$

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S44. Ans.(e)**Sol.**

$$\begin{aligned} \text{Required difference} &= 100 + 110 - 50 - 100 \\ &= 210 - 150 = 60 \end{aligned}$$

S45. Ans.(c)**Sol.**

$$\begin{aligned} \text{Total no. of girls who failed} &= \frac{80}{100} \times 50 + \frac{55}{100} \times 100 \\ &= 40 + 55 = 95 \end{aligned}$$

Solution (46-50): -Let girls in institute 'B' be $3x$ = Boys in institute 'C'

Boys in institute 'A' = $\frac{3x}{2} = 1.5x$

Let Girls in institute 'C' be $2y$

Girls in institute 'A' = $\frac{2y}{2} = y$

Boys in institute 'B' = $\frac{1.5x}{75} \times 100 = 2x$

Institute A		Institute B		Institute C	
Boys	Girls	Boys	Girls	Boys	Girls
1.5x	y	2x	3x	3x	2y

ATQ,

$$1.5x + y + 2x + 3x + 3x + 2y = 2600$$

$$9.5x + 3y = 2600 \dots \dots (i)$$

And, $2y - 3x = 240 \dots \dots (ii)$

On solving (i) and (ii), We got

$$x = 160 \text{ and } y = 360$$

Institute A		Institute B		Institute C	
Boys	Girls	Boys	Girls	Boys	Girls
240	360	320	480	480	720

S46. Ans.(d)**Sol.**

$$\text{Required Ratio} = \frac{240+360}{320+480} = \frac{600}{800} = \frac{3}{4}$$

S47. Ans.(a)**Sol.**

$$\text{Required \%} = \frac{720-480}{480} \times 100 = \frac{240}{480} \times 100 = 50\%$$

S48. Ans.(a)

Sol.

Total girls in all three institute together = $360 + 480 + 720 = 1560$

Total boys in all three institute together = $240 + 320 + 480 = 1040$

Required difference = $1560 - 1040 = 520$

S49. Ans.(b)

Sol.

Total students in institute 'D' = $\frac{125}{100} \times 480 + \frac{150}{100} \times 720 = 600 + 1080 = 1680$

S50. Ans.(d)

Sol.

Required % = $\frac{360}{480} \times 100 = 75\%$



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