

# New Pattern Based Caselet DI Questions

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**Direction (1-5)** Study the following information carefully and answer the following questions

Every year, a survey of 2000 people is conducted by the National Health Agency. found that in the year 2005, 2006, 2007, 2008 and 2009 the percentage of people affected by dengue were 30%, 40%, 30%, 20% and 45% respectively. WHO also found that every year out of the affected people 60% were students, 10% were house-wives and 30% were drivers. The number of house-wives, students and drivers were in the ratio 20 : 11 : 9, every year.

**Q1. In the year 2007, find the number of students affected by Dengue?**

- (A) 360                      (B) 330  
(C) 350                      (D) 110  
(E) 150

**Q2. In the year 2006, find the number of drivers who were not affected by Dengue?**

- (A) 220                      (B) 215  
(C) 145                      (D) 210  
(E) 390

**Q3. What is the difference between the number of house wives affected and not affected by Dengue in the year 2008?**

- (A) 40                              (B) 960  
(C) 900                              (D) 940  
(E) 920

**Q4. Find the ratio of the number of students affected by Dengue in the year 2006 to that affected by Dengue in the year 2007.**

- (A) 5: 3                              (B) 9: 4  
(C) 3: 2                              (D) 2: 1

(E) 4: 3

**Q5. what is the average of non affected house wives in 2005, 2007 and 2008 together?**

- (A) 940                              (B) 945  
(C) 960                              (D) 935  
(E) 938

**Directions (6-10).** Study the following information carefully and give the answer of following questions.

Different number of units of electricity is consumed by three houses i.e. P, Q and R in a month. Total number of units of electricity consumed by house Q is 150 units less than that of house P and total units of electricity consumed by house R is 240 units more than that of house Q. Number of units of electricity consumed by lights in house R is thrice to that of in house P and number of units of electricity consumed by lights in house Q is 40% more than that of house P. Total number of units of electricity consumed by lights in house P, Q and R together is 270 units. Total number of units of electricity consumed by house P is ten times of the number of units of electricity consumed by lights in house P. Number of units of electricity consumed by fans in house Q is 63. Ratio of number of units of electricity consumed by fans in house P, Q and R is 11:9:12 respectively.

**6. Number of units of electricity consumed by appliances other than fans and lights in house R is:**

- (A) 332                              (B) 340  
(C) 354                              (D) 372  
(E) 356

**7. In house P, how much percent of electricity is consumed by fans out of total electricity consumed by it?(approx)**

- (A) 12% (B)30%  
(C) 15% (D) 20%  
(E) 10%

**8. 10% of the electricity consumed by appliances other than fans and lights is spent on ACs in house Q. How much number of units of electricity is consumed by ACs in house Q?**

- (A) 15.7 (B)21.7  
(C) 22.7 (D) 10.7  
(E) 20.7

**9. Number of units of electricity consumed by fans in house R and Q are:**

- (A) 157 (B)147  
(C) 137 (D) 132  
(E) 135

**10. Approximately how much percent of electricity is consumed by appliances other than fans and lights in house R?**

- (A) 62% (B)65%  
(C) 68% (D) 60%  
(E) 66%

**Directions (11-15).** Six employees i.e. M, N, O, P, Q and R work for an organization. Each one of them types different number of words in an hour. Number of words typed by N in an hour are 20% more than that of M. Number of words typed by P in an hour are 40% more than that of O. Number of words typed by Q in an hour are 10% less than that of M. Number of words typed by R in an hour are equal to average words typed by O and P together in an hour. Total number of words

typed by M and O in an hour are 3345.

Number of words typed by M in an hour are 375 more than that of O.

**11. Number of words typed by R in an hour are:**

- (A) 17825 (B)1782  
(C) 1762 (D) 1765  
(E) 1777

**12. Approximately how much words are typed by Q in a minute?**

- (A) 20 (B)23  
(C) 28 (D) 30  
(E) 27

**13. In approximately how much time will M and N will be able to type 20000 words while working together?**

- (A) 7 hours (B)10 hours  
(C) 4 hours (D) 6 hours  
(E) 5 hours

**14. Number of words typed by N in 3 hours are how much more than the number of words typed by R in 2 hour?**

- (A) 3313 (B)3213  
(C) 3422 (D) 3132  
(E) 3412

**15. Number of words typed by N in a minute are approximately how much percent more than that of O?**

- (A) 47% (B)50%  
(C) 52% (D) 53%  
(E) 45%

**Directions (16-20).** Karan is a clerk in RBI office and typed certain number of words in four different months of 2016 i.e. January, February, March and April. The days of the month are categorized into odd number days and even number days with respect to their date.

(A) In January, he typed 1500 words per even day. No words were typed on odd day.

(B) In February, he typed 1200 words per odd day and 1600 words per even day.

(C) In March, he typed 1800 words per odd day and 1100 words per even day.

(D) In April, he typed 1300 words per even day. Average number of words typed in this month is 1800 words per day.

**15. Total number of words typed by Karan on odd days in April are:**

- (A) 37500 (B) 33000  
(C) 34500 (D) 32000  
(E) 31500

**16. What is the difference between total number of words typed on odd days of month April and total number of words typed on odd days in month of February?**

- (A) 17500 (B) 14500  
(C) 16500 (D) 15500  
(E) 12500

**18. In February, total number of words typed on even days are how much more than the total number of words typed on odd days?**

- (A) 4400 (B) 4800  
(C) 4000 (D) 4050  
(E) 4420

**19. Average number of words typed per day in January are (approximately):**

- (A) 690 (B) 720  
(C) 695 (D) 715  
(E) 725

**20. Total number of words typed by Karan in September are 8000 more than the total number of words typed by him in February. Average number of words typed per day by him in September are (approx)**

- (A) 1780 (B) 1600  
(C) 1580 (D) 1500  
(E) 1850

**Directions (21-25):** There is a total of 3000 employees and each employee is associated with at least one department among HR, Marketing and Sales. 10% of employees are associated with only Sales, 20% of employees are associated with only Marketing, 30% of employees are associated with only HR. 10% of employees are associated with HR and Sales but not marketing. 15% of employees are associated with Sales and Marketing but not HR. 10% of employees are associated with all the departments.

**21. Total number of persons in only HR and only Marketing department?**

- (A) 1050 (B) 1150  
(C) 950 (D) 1250  
(E) None of these

**22. Employees working in only HR is what percent of employees in only sales?**

- (A) 200 (B) 150  
(C) 50 (D) 250  
(E) None of these



**23. Total number of employees in Marketing only is what percent of total number of employees in all departments?**

- (A) 10 (B) 15  
(C) 20 (D) 25  
(E) None of these

**24. Total number of employees in sales ?**

- (A) 1050 (B) 1150  
(C) 950 (D) 1350  
(E) None of these

**25. Number of employees working in at least two departments?**

- (A) 1050 (B) 1150  
(C) 950 (D) 1250  
(E) None of these

**(26-30). Study the given information carefully and answer the following questions.**

Total players in a sports Academy named 'Adidas' is 3600. Ratio of boys to girls in that academy is 4 : 5. Boys who play only Hockey is 22% of the total boys & girls who play only cricket are 50% more than boys who play only Hockey. 15% of total boy play only Cricket and remaining play both the games. Girls who play both games are thrice of boys who play only cricket & remaining play only hockey.

**26. Boys who play both games are what percent of total students who play both games?**

- (A) 58  $\frac{1}{3}$ % (B) 47  $\frac{2}{3}$ %  
(C) 51  $\frac{1}{3}$ % (D) 63  $\frac{2}{3}$ %  
(E) 74  $\frac{2}{3}$ %

**27. what are the total number of students who played both games?**

- (A). 1784 (B). None of these  
(C). 1754 (D). 1706  
(E). 1728

**28. What is ratio of boys who play only Cricket to girls who play only Hockey ?**

- (A). 11 : 43 (B). None of these  
(C). 15 : 47 (D). 13 : 47  
(E). 15 : 43

**29. what is the total number of student who play only cricket?**

- (A). 784 (B). 768  
(C). 754 (D). 706  
(E). None of these

9. (B)  $240 + 528 = 768$

**30. What is the difference of boys and girls who play both the games ?**

- (A). 324 (B). 180  
(C). 240 (D). 248  
(E). 288

**Directions(31-35). Study the following data carefully and give the answer of following questions.**

Data was calculated for the number of male and female visitors in a park on five days of a week i.e. Sunday, Monday, Tuesday, Wednesday and Thursday. Number of female visitors on Sunday are 20% less than that of male visitors. Number of male visitors on Monday are 40% more than that of male visitors on Sunday. Number of female visitors on Monday are  $\frac{5}{7}$  of the number of male visitors on the same day. Total number of visitors on Sunday and Monday together are

840. Number of male visitors on Wednesday are 39 more number of female visitors on Tuesday. Number of female visitors on Tuesday are  $\frac{5}{9}$  of the number of male visitors on the same day. Number of female visitors on Wednesday are 16 more than that of male visitors. Number of male visitors on Thursday is equal to the average number of male visitors on Monday and Wednesday together. Number of female visitors on Thursday are 64 less than that of male visitors. Total number of visitors on Tuesday are 686.

**31. Total number of visitors who visited the park on Sunday and Monday together?**

- (A) 740 (B) 840  
(C) 780 (D) 800  
(E) None of these

**32. Number of female visitors on Thursday are what percent of the number of male visitors on Tuesday?(approx)**

- (A) 45 (B) 42  
(C) 50 (D) 54  
(E) 55

**33. What is the difference between the number of female members on Monday and Wednesday?**

- (A) 150 (B) 200  
(C) 250 (D) 100  
(E) 190

**34. Number of male visitors on Sunday are approximately what percent of number of female visitors on Thursday?**

- (A) 92% (B) 95%  
(C) 88% (D) 85%

(E) 90%

**35. Total number of persons visits all the park all days together?**

- (A) 2150 (B) 2500  
(C) 2650 (D) 2700  
(E) 2610

Directions(36-40).Two trains A and B running at speeds 60 km/hr and 90 km/hr respectively are approaching each other. They are 600 km away. After one hour , A bird starts from Train A towards Train B at the speed of 120km/hr. It reverses his direction as soon as he reached Train B and flies towards A, it continues this until Train A and Train B meets. The total distance covered by the bird until Train A and Train B meet is \_\_\_P\_ km. The time taken by the bird to meet Train B for the first time is \_\_\_Q\_ hours. The distance between Train A and Train B when the bird meets Train B for the first time is \_\_\_R\_ km(approx). A bee also joins the bird at the time when the bird meets Train B for the first time. The bee covers 16 km distance at a speed of \_\_\_S\_ km/hr until Train A and Train B meet. The speed of Bee is \_\_\_T%\_ of the speed of train B.

**36. Find the value of P?**

- (A) 360 (B) 340  
(C) 380 (D) 350  
(E) None of these

**37. Find the value of Q?**

- (A)  $4\frac{1}{7}$  hours/ $4\frac{1}{7}$  घंटे  
(B)  $3\frac{1}{7}$  hours/ $3\frac{1}{7}$  घंटे  
(C)  $2\frac{1}{7}$  hours/ $2\frac{1}{7}$  घंटे  
(D)  $1\frac{1}{7}$  hours/ $1\frac{1}{7}$  घंटे  
(E) None of these

38. Find the value of R?(approx)

- (A) 136 (B) 134  
(C) 138 (D) 128  
(E) None of these

39. Find the value of S?

- (A) 22 (B) 25  
(C)  $75/4$  (D) 20  
(E) None of these

40. Find the value of T?

- (A)  $21\frac{5}{6}\%$  (B)  $19\frac{5}{6}\%$   
(C)  $18\frac{1}{6}\%$  (D)  $20\frac{5}{6}\%$   
(E) None of these

**Directions(1-5)** There are three sections in a library for students – A, B and C. 18% and 8% of students visit only B and C section respectively. Total 70% of students visit the A section. 240 students visit the B and A section but not the C section and they are four times of the number of students who visit the B and C section but not the A section.

41. Find the total number of students who visited only C section.

- (A) 150 (B) 125  
(C) 120 (D) 130  
(E) 140

42. what are the total number of students who visits at least one section together?

- (A) 1500 (B) 1250  
(C) 1200 (D) 1300  
(E) 1400

43. What will be the maximum number of students who visited only B section?

- (A) 300 (B) 280  
(C) 340 (D) 270  
(E) 290

44. What is ratio of the number of students who visit section C to number of students who visit section B and C together but not section A?

- (A) 3:4 (B) 4:3  
(C) 1:2 (D) 5:1  
(E) 2:1

45. What is the total number of students who visit atleast two sections if the total number of students who visits all sections is 20 and number of students who visit only section A is 600?

- (A) 500 (B) 580  
(C) 540 (D) 510  
(E) 590

**DIRECTION (Q. 46-50):-** Study the given passage carefully and answer the questions

The total population of city X is 7100 out of which 24% population are below poverty line. And total population of city X is less  $11\frac{1}{4}\%$  than total population of city Z and 25% of population in city Z is below poverty line. Population other than below poverty line in city L is 160 more than population of city X which are not below poverty line. Average population of Y and K is equal to average population of city X and Z & population of Y is 150% of population of K. Ratio of BPL in city Z to city K is 2 : 3. 20% of total population are BPL in city Y and Z. BPL in city L is equal to BPL in city X

**46. Average BPL population in city X and Y is how much more/less than average BPL population in city K and L ?**

- (A) 794 (B) 824  
(C) 848 (D) 764  
(E) None of these

**47. Average population in city K and L is what percent of total population in city Z ?**

- (A) 93% (B) 73%  
(C) 83.125% (D) 87.50%  
(E) 78.625%

**48. In another city A', BPL population is half of the population other than BPL in city K which is 25% of total population. Then find total population in city A ?**

- (A) 6820 (B) 6080  
(C) 6240 (D) None of these  
(E) 6040

**49. What is the average BPL population in all the cities ?**

- (A) 2924 (B) None of these  
(C) 2780 (D) 2724  
(E) 2964

**50. BPL population in city Z is what percent of BPL of city K ?**

- (A) 37.5% (B) 35%  
(C) 33.66% (D) None of these  
(E) 66.66%



**Answer key**

1. (A)	2. (D)	3. (E)	4. (E)	5. (B)	6. (E)	7. (C)	8. (B)	9. (B)	10. (D)
11. (B)	12. (C)	13. (E)	14. (D)	15. (B)	16. (C)	17. (C)	18. (A)	19. (E)	20. (B)
21. (E)	22. (E)	23. (C)	24. (D)	25. (E)	26. (A)	27. (E)	28. (C)	29. (B)	30. (E)
31. (B)	32. (C)	33. (D)	34. (E)	35. (E)	36. (A)	37. (C)	38. (D)	39. (C)	40. (D)
41. (C)	42. (A)	43. (D)	44. (E)	45. (D)	46. (E)	47. (C)	48. (B)	49. (C)	50. (E)

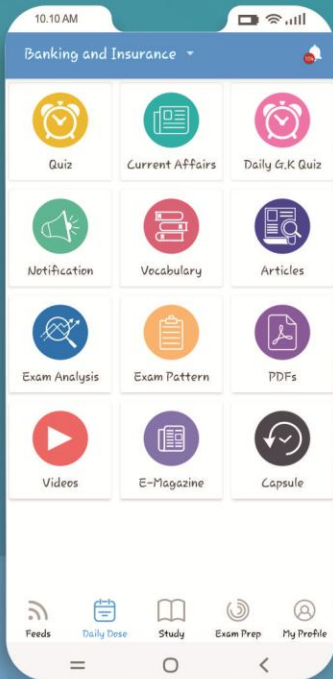


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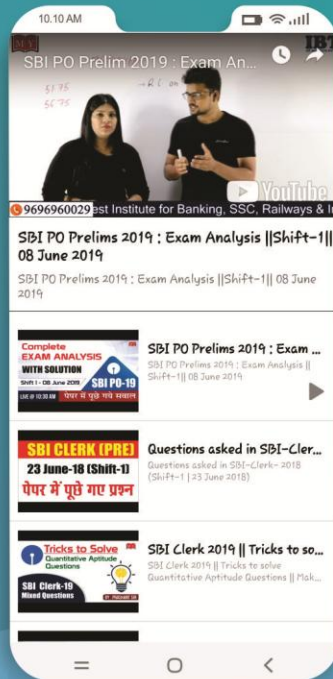
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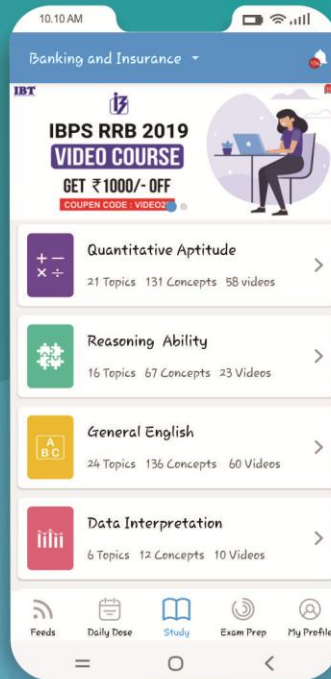
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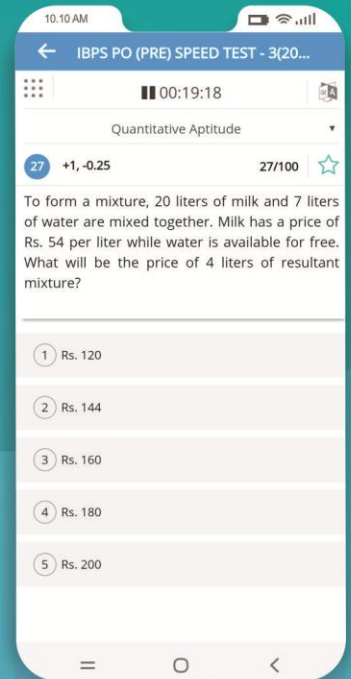
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