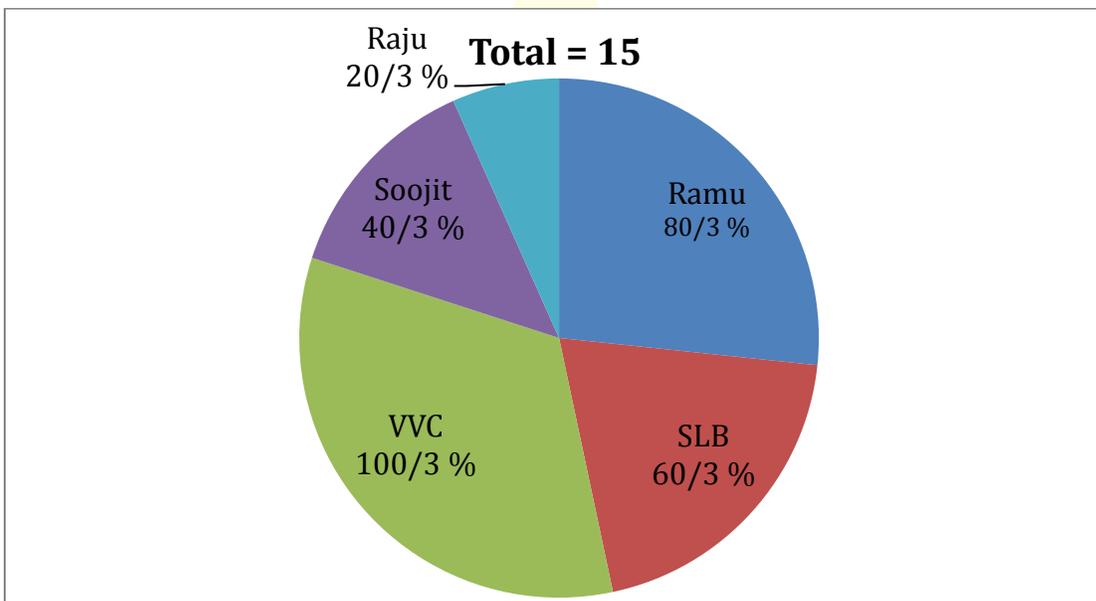
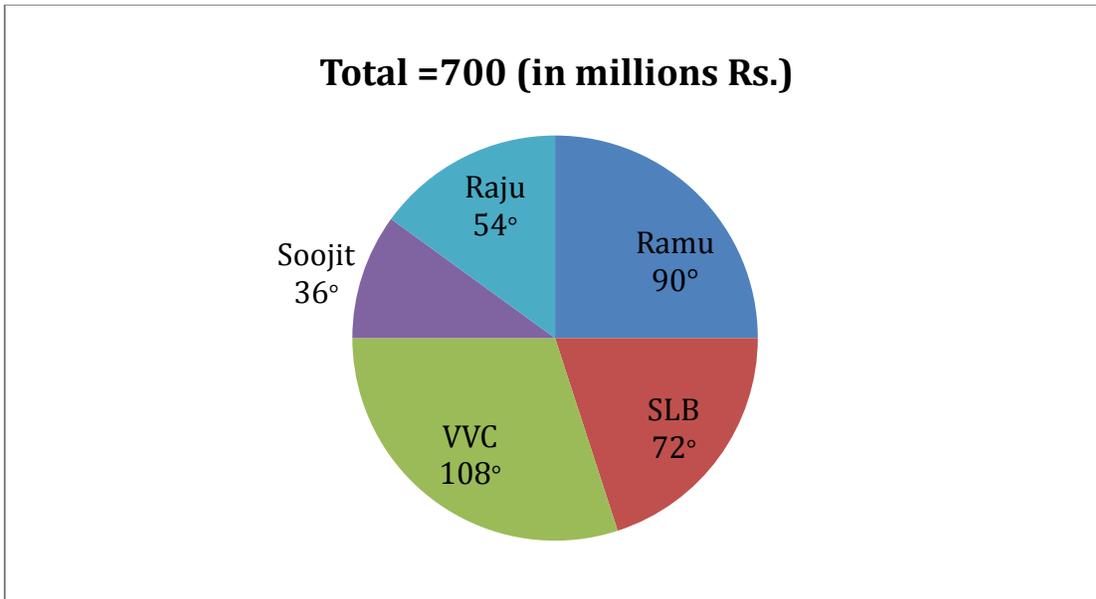


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Directions (1-5): One of the two pie-graphs given below shows the total revenue earned by five film producers from their films in 2011 and the other pie-graph shows the number of movies released by them in year 2011.



Q1. If revenue generated by these five producers is $\frac{175}{3}$ % of the total revenue generated through films in 2011, then Soojit's average revenue per film is approximately what percent of the total revenue from films in 2011 ?

- (a) 2.91%
- (b) 1.56%
- (c) 3.5%
- (d) 4%
- (e) 5.26%

Q2. What is the ratio of Ramu's average revenue per film to SLB's average revenue per film ?

- (a) 19 : 17
- (b) 15 : 16
- (c) 17 : 20
- (d) 17 : 16
- (e) None of these

Q3. Out of the films produced by VVC, 40% were of thriller genre. The other 60% films had an average revenue of 60 million per film. The average revenue per film from films of thriller genre by VVC was approximately what percent of average revenue per film by Raju ?

- (a) 16.66%
- (b) 12.8%
- (c) 14.28%
- (d) 13.9%
- (e) 22.22%

Q4. Soojit's films were hit hard at box office and he made a loss of 20%. If he were to make a profit of 25%, what should have been his average revenue per film ?

- (a) Rs. 4683750
- (b) Rs. 5487590
- (c) Rs. 5483500
- (d) Rs. 5468750
- (e) None of these

Q5. If total revenue generated by given producers is 40% of the total revenue generated from films in 2011, and average revenue generated per film in 2011 was 50 million, then the number of movies produced by given five producers is approximately what percent of the total films produced in 2011?

- (a) 42.85%
- (b) 41.56%
- (c) 48.2%
- (d) 43.81%
- (e) 46.26%

Q6. One-third of the contents of container evaporated on the first day and three fourths of the remaining evaporated on the second day. What part of the contents of the container is left at the end of the second day?

- (a) 1/4
- (b) 1/2
- (c) 1/8
- (d) 1/6
- (e) 5/6

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Q7. Mr. Rajan owned 950 Gold coins all of which he distributed amongst his three sons Lalit, Amit and Nishant. Lalit gave 25 Gold coins to his wife, Amit donated 15 Gold coins and Nishant made jewellery out of 30 Gold coins. The new respective ratio of the coins left with them was 20 : 73 : 83. How many Gold coins did Amit receive from Mr. Rajan.

- (a) 415
- (b) 380
- (c) 400
- (d) 350
- (e) 360

Q8. In Harvard University, out of 7 students learning Polity, 3 take computer science also. If 10% of the total students take only Polity then find the percentage of students, who have taken Polity is ?

- (a) $17\frac{1}{2}\%$
- (b) $23\frac{1}{3}\%$
- (c) $7\frac{1}{2}\%$
- (d) Cannot be determined
- (e) None of these

Q9. A sells an article to B making a profit of $\frac{1}{5}$ of his outlay. B sells it to C, gaining 20%. If C sells it for Rs. 600 and incurs a loss of $\frac{1}{6}$ of his outlay, the cost price of A is

- (a) Rs. 600
- (b) Rs. 500
- (c) Rs. 720
- (d) Rs. 800
- (e) Rs. 850

Q10. An amount of money is to be divided among Prabhat, Qutub and Ritik in the ratio of 3 : 5 : 7 respectively. If the amount received by Ritik is Rs. 4,000 more than the amount received by Qutub, what will be the total amount received by Prabhat and Qutub together?

- (a) Rs. 8,000 (b) Rs. 12,000
- (c) Rs. 16,000 (d) Cannot be determined
- (e) None of these

Directions (11-15): Simplify the following questions.

Q11. $\sqrt{?} \times \sqrt{3025} = 2695$

- (a) 2401
- (b) 2209
- (c) 2601
- (d) 2304
- (e) 2400

Q12. $(98)^2 + (?) = (150)^2 - (80)^2 - 737$

- (a) 6084
- (b) 5759
- (c) 5777
- (d) 6724
- (e) 5658

Q13. $48 + 8 \times 0.75 - 5 = ?$

- (a) 22
- (b) 36
- (c) 49
- (d) 56
- (e) 46

Q14. $18.657 - 7.549 - 4.111 - 1.630 = ?$

- (a) 4.673
- (b) 6.893
- (c) 6.562
- (d) 5.367
- (e) 6.367

Q15. $2950 \div 12.5 + 160 = ?$

- (a) 392
- (b) 390
- (c) 396
- (d) 394
- (e) 400





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Directions (16-20): The following table shows the number of employees working in various companies in 4 different years.

Note: T = total employee, M : F = ratio of male and female employees.

Company	1990		1991		1992		1993	
	T	M : F	T	M : F	T	M : F	T	M : F
A	1260	9 : 5	1540	5 : 6	1400	3 : 5	1110	8 : 7
B	1108	3 : 1	1320	7 : 5	1120	9 : 7	970	2 : 3
C	1080	7 : 11	1250	2 : 3	1660	11 : 9	1060	2 : 3
D	948	7 : 5	1010	1 : 1	1370	3 : 2	1100	6 : 5
E	1200	8 : 7	1430	6 : 7	1510	7 : 3	930	7 : 8

Q16. In 1991, $66\frac{2}{3}\%$ female employees of company A and $83\frac{1}{3}\%$ male employees of company E were invited in a meeting. Find the difference between male and female employees who attended the meeting ?

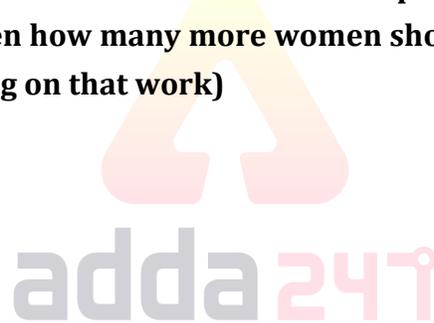
- (a) 18
- (b) 12
- (c) 10
- (d) 20
- (e) None of these

Q17. A list was made by listing the number of female employees of all companies in 1992. Somehow the number of female employees of company C was swapped with number of male employees of same company. Find by what number the total number of female employees in all companies differ?

- (a) 233
- (b) 166
- (c) 133
- (d) 266
- (e) None of these

Q18. In 1993, company A and C undertook a contract to complete a work in 30 days. If in 25 days only $\frac{2}{3}$ of work was completed, then how many more women should be hired to complete the work in time ? (only women are working on that work)

- (a) 1620
- (b) 1700
- (c) 1371
- (d) 1731
- (e) None of these



Q19. Find the ratio of number of male employee of company C and D together in 1991 and that of company B and E together in 1993 ?

- (a) 3 : 2
- (b) 33 : 26
- (c) 11 : 9
- (d) 5 : 4
- (e) None of these

Q20. $66\frac{2}{3}\%$ of female employees of company A in 1991 are what percent of male employee of company B in same year ?

- (a) $72\frac{7}{11}\%$
- (b) $72\frac{8}{11}\%$
- (c) $70\frac{8}{11}\%$
- (d) $72\frac{1}{3}\%$
- (e) None of these

Q21. A cistern can be filled by two pipes filling separately in 12 and 16 minutes respectively. Both pipes are opened together for a certain time but at the same time both pipes were clogged and only $\frac{7}{8}$ of full quantity of water flows through the former and only $\frac{5}{6}$ through the latter pipe. The obstructions, however, suddenly removed after which the cistern was filled in 3 minutes from that moment. For how long the pipes were clogged?

- (a) $4\frac{1}{3}$ min.
- (b) $4\frac{1}{2}$ min.
- (c) $3\frac{1}{2}$ min.
- (d) $8\frac{1}{3}$ min.
- (e) $6\frac{1}{2}$ min.

Q22. A bag has 4 red and 5 black balls. A second bag has 3 red and 7 black balls. One ball is drawn from the first bag and two from the second. The probability that there are two black balls and a red ball is:

- (a) $\frac{14}{45}$
- (b) $\frac{11}{45}$
- (c) $\frac{7}{15}$
- (d) $\frac{9}{54}$
- (e) None of these

Q23. In a bag there are 7 red balls and 5 green balls. Three balls are picked at random. What is the probability that two balls are red, and one ball is green in color?

- (a) $\frac{29}{44}$
- (b) $\frac{21}{44}$
- (c) $\frac{27}{44}$
- (d) $\frac{23}{44}$
- (e) $\frac{19}{44}$

Q24. Pipe A and B can fill a tank in 20 minutes and 25 minutes respectively. A third pipe C can empty it in 10 minutes. The first two pipes are kept open for 8 minutes in the beginning and then the third pipe is also opened. In what time will the tank become empty?

- (a) 72 minutes
- (b) 64 minutes
- (c) 56 minutes
- (d) 48 minutes
- (e) None of these

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Q25. The present ages of Ranjana and Rakhi are in the ratio of 15 : 17 respectively. After 6 years, the respective ratio between the age of Ranjana and Rakhi will be 9 : 10. What will be the age of Ranjana after 6 years ?

- (a) Other than those given as options
- (b) 40 years
- (c) 34 years
- (d) 30 years
- (e) 36 years

Directions (26-30): What will come in place of (?) in the following number series problems?

Q26. 1, 4, 15, 64, 325, ?

- (a) 1856
- (b) 1844
- (c) 1952
- (d) 1956
- (e) 1786

Q27. 100, 121, 144, 169, 196, ?

- (a) 225
- (b) 230
- (c) 235
- (d) 240
- (e) 245

Q28. 6, 3, 3, 4.5, 9, ?

- (a) 23.5
- (b) 20
- (c) 22.5
- (d) 21.5
- (e) 24

Q29. 3, 4, 9, 28, 113, ?

- (a) 566
- (b) 685
- (c) 775
- (d) 705
- (e) 675

Q30. 441, 484, 529, 576, 625, ?

- (a) 676
- (b) 678
- (c) 680
- (d) 682
- (e) 684



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Q31. A, B and C can complete a piece of work in 10, 12 and 15 days respectively. A left the work 5 days before the work was completed and B left 2 days after A had left. Number of days required to complete the whole work was:

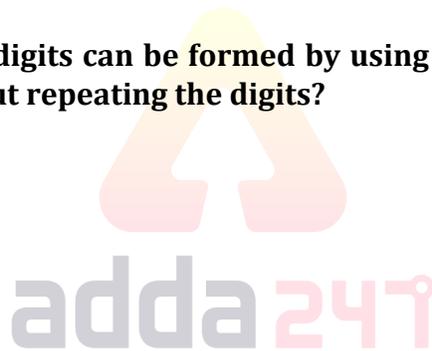
- (a) $8\frac{2}{3}$ days
- (b) 6 days
- (c) $6\frac{2}{3}$ days
- (d) 7 days
- (e) 9 days

Q32. Two trains R and S having their lengths in the ratio of 9 : 11 are running towards each-other from two opposite stations. They cross a platform which length is 50% more than the average length of trains in 16 and 24 seconds respectively. Find the ratio of speed of train R to that of train S.

- (a) 18:13
- (b) 13:18
- (c) 17:13
- (d) 13:17
- (e) 14:13

Q33. How many numbers of five digits can be formed by using the digits 1, 0, 2, 3, 5, 6 which are between 50000 and 60000 without repeating the digits?

- (a) 150
- (b) 160
- (c) 120
- (d) 140
- (e) 130



Q34. The ratio of efficiencies of two filling pipes is 4 : 5. There is a third emptying pipe which efficiency is two third of the average efficiency of first two filling pipes can empty a filled tank in 36 minutes. In how much time both the filling pipes can fill the tank when it is empty?

- (a) 12 min.
- (b) 14 min.
- (c) 10 min.
- (d) 16 min.
- (e) 18 min.

Q35. Mr. Arun can make 40 questions in 5 hours and Mr. Veer can make 45 questions in 9 hours. If Mr. Arun takes help of Mr. Satish then both can complete 40 questions in 2 hours and if Mr. Veer takes help of Mr. Ayush then both can complete 45 questions in 5 hours. Find in how much time Mr. Satish and Mr. Ayush can complete a set of 24 questions together?

- (a) 3 h
- (b) 2.5 h
- (c) 2 h
- (d) 1.5 h
- (e) 4 h

Directions (36-40): In each of the following questions two equations are given. You have to solve the equations and

Give answer -

- (a) if $x < y$
- (b) if $x \leq y$
- (c) relationship between x and y cannot be determined
- (d) if $x \geq y$
- (e) if $x > y$

Q36. I. $3x^2 + 16x + 21 = 0$

II. $6y^2 + 17y + 12 = 0$

Q37. I. $16x^2 + 20x + 6 = 0$

II. $10y^2 + 38y + 24 = 0$

Q38. I. $8x^2 + 6x = 5$

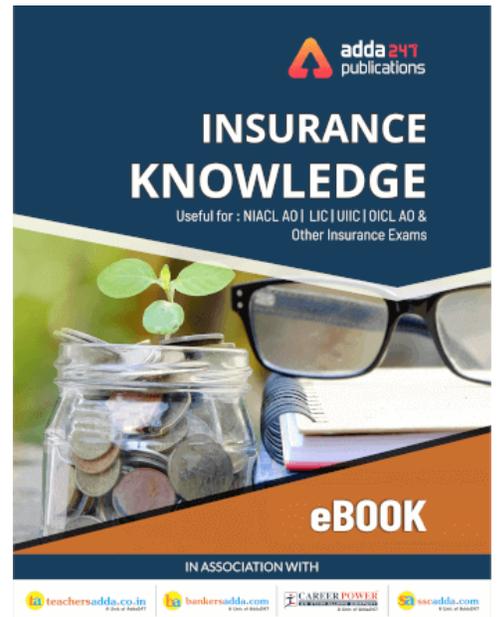
II. $12y^2 - 22y + 8 = 0$

Q39. I. $17x^2 + 48x = 9$

II. $13y^2 = 32y - 12$

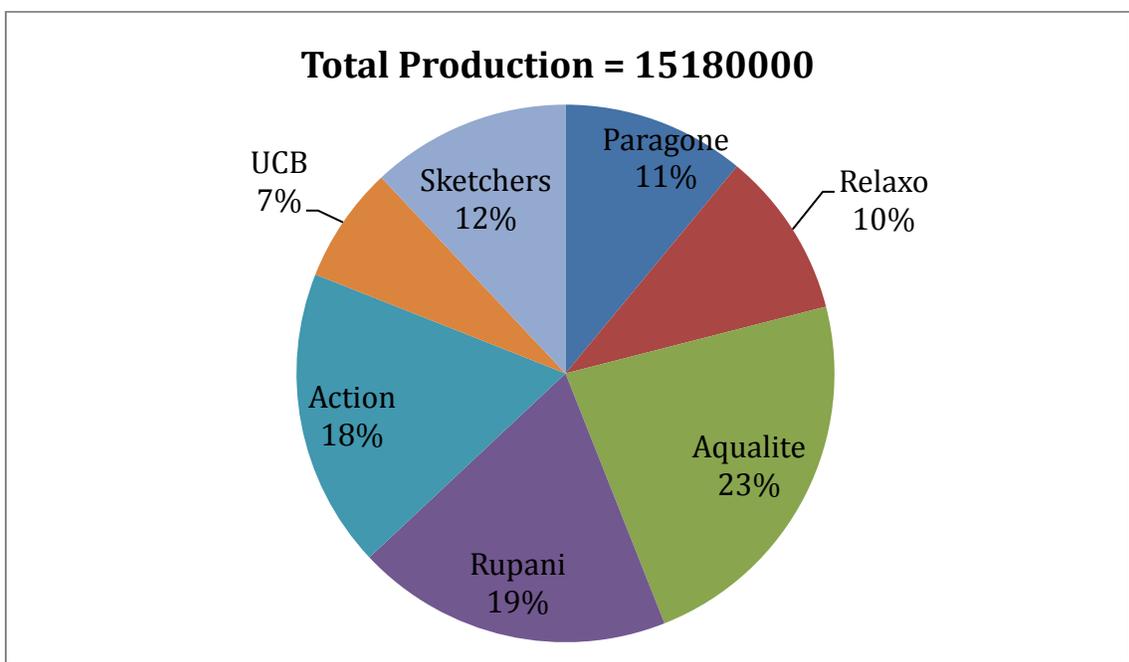
Q40. I. $8x^2 + 26x + 15 = 0$

II. $4y^2 + 24y + 35 = 0$

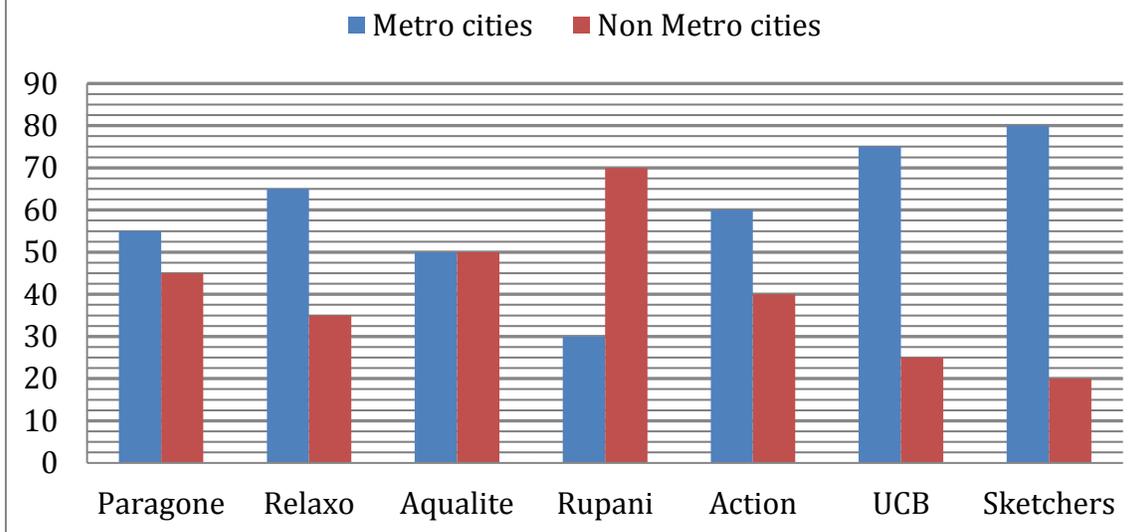


Directions (41-45): Study the following graph and answer the questions accordingly:

The following pie-chart shows the production of slippers in India during the month of March 2018



The following graph shows the percentage selling in metro cities vs Non metro cities



Q41. What is the difference between the sale of Relaxo in Metro cities and that of UCB in Non Metro cities ?

- (a) 693342
- (b) 683750
- (c) 682503
- (d) 721050
- (e) 713394

Q42. Which company sells maximum number of slippers in Non Metro cities ?

- (a) Rupani
- (b) Aqualite
- (c) Action
- (d) UCB
- (e) Paragon

Q43. What percent of the total number of slippers were sold in Metro cities ?

- (a) 53.7%
- (b) 55.4%
- (c) 51.9%
- (d) 54.2%
- (e) 60.2%

Q44. The sale of Sketchers slippers in Metro cities is how much percent less/more than sale of Rupani in Metro cities?

- (a) 61.23% less
- (b) 59.34% less
- (c) 68.42% more
- (d) 67.52% more
- (e) 60.2% less

Q45. How many Paragon slippers sold in Non- Metro cities?

- (a) 745340
- (b) 756880
- (c) 798340
- (d) 793941
- (e) None of these

Directions (46-50): Study the following information given below carefully and answer the related questions asked.

In a company, there are four departments namely Blog, content, support & Video. Out of total employees, $\frac{100}{3}$ % are working in blog team and 25% of remaining are working in support team. Number of employees working in content team are 20% more than that in Blog team. 24 employees are working in video team. 40% of employees working in blog team are from Delhi NCR. 60% of employees working in support team are from North-East. 75% of total employees working in content department come from East of India. The employees working in Video department are either from Haryana or from Delhi NCR, and they are in the ratio of 3:5.

No employee working in content and support team belongs to Delhi NCR.

Q46. Total number of employees working in blog team are what percent more or less than the total number of employees working in video team?

- (a) $133\frac{1}{3}\%$
- (b) $233\frac{1}{3}\%$
- (c) $222\frac{1}{3}\%$
- (d) $233\frac{2}{3}\%$
- (e) None of these

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Q47. What is the ratio of employees who comes from Delhi NCR to the total employees working in content team?

- (a) 47 : 96
- (b) 96 : 47
- (c) 1 : 2
- (d) 9 : 16
- (e) 16 : 9

Q48. What is the average of total number of employees working in Blog team, support team and Video team together?

- (a) 36
- (b) 52
- (c) 48
- (d) 28
- (e) 44

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Q49. If 12 ½% employee of content team, 16 ⅓% employees of video team and 20% employees of support team are over age for banking exams then find the number of such employees who cannot be a banker.

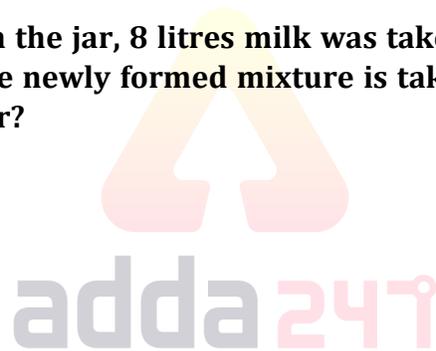
- (a) 28
- (b) 26
- (c) 20
- (d) 24
- (e) 18

Q50. Total number of employees coming from Delhi NCR who works in blog team and number of employees coming from North-East who works in support team together are how many (in number) more or less than the number of employees coming from East region of India, working in content team?

- (a) 18
- (b) 16
- (c) 14
- (d) 12
- (e) 20

Q51. A jar has 40 litre milk. From the jar, 8 litres milk was taken out and replaced with an equal quantity of water. If 8 litres of the newly formed mixture is taken out of the jar, then what is the final quantity of milk left in the jar?

- (a) 30 lit
- (b) 24.6 lit
- (c) 28.2 lit
- (d) 25 lit
- (e) 25.6 lit



Q52. 9 litres are drawn from a cask full of water and it is then filled with the same quantity of milk. 9 litres of mixture are drawn again and the cask is again filled with the same quantity of milk. The quantity of water now left in the cask to that of milk in it is 16 : 9. Find the capacity of the cask?

- (a) 45 litre
- (b) 48 litre
- (c) 50 litre
- (d) 42 litre
- (e) 40 litre

Q53. Kumar purchased 320 kg of Rice at the rate of 17.60/kg and mixed it with 160 kg of rice purchased at the rate of 16.40/kg. He wants to earn a profit of Rs. 9.45 per kg by selling it. What should be the selling price of the mix. per kg?

- (a) Rs. 22.55
- (b) Rs. 24.75
- (c) Rs. 26
- (d) Rs. 26.65
- (e) None of these

Q54. A person has purchased two adjacent plots, one is in rectangular shape and other is in square shape and combined them to make a single new plot. The breadth of rectangular plot is equal to the side of the square plot and cost of fencing the new plot is Rs 390 (Rs 5/meter). Find the side of square if the length of rectangular plot is 15 m.

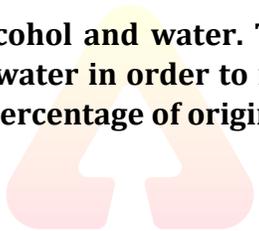
- (a) 8 meter
- (b) 10 meter
- (c) 12 meter
- (d) 6 meter
- (e) 16 meter

Q55. Four circles having equal radii are drawn with centres at the four corners of a square. Each circle touches the other two adjacent circle. If remaining area of the square is 168 cm^2 , what is the size of the radius of the circle? (in centimeters) (take $\pi = 22/7$)

- (a) 1.4
- (b) 14
- (c) 35
- (d) 21
- (e) 3.5

Q56. There is a 120 litre mixture of alcohol and water. The ratio of alcohol to water is 7 : 5. A shopkeeper mixes a certain amount of water in order to make the ratio of alcohol to water 5 : 6. Find the new quantity of water is what percentage of original quantity of water in the mixture?

- (a) 168%
- (b) 175%
- (c) 160%
- (d) 178%
- (e) 172%


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Q57. The perimeter of a square is equal to twice the perimeter of a rectangle of length of 8 cm and breadth 7 cm. What is the circumference of a semicircle whose diameter is equal to the side of the square? (Rounded off to the two decimal places) (take $\pi = 3.14$)

- (a) 38.57 cms.
- (b) 23.57 cms.
- (c) 42.46 cms.
- (d) 47.47 cms.
- (e) 35.87 cms.

Q58. Two fair dices are thrown. The probability of getting.

Quantity 1: A sum of two numbers divisible by 4.

Quantity 2: A sum of two numbers to be a prime number less than 10.

- (a) Quantity 1 > Quantity 2
- (b) Quantity 1 < Quantity 2
- (c) Quantity 1 \geq Quantity 2
- (d) Quantity 1 \leq Quantity 2
- (e) Quantity 1 = Quantity 2 or relationship cannot be established.

Q59. Quantity 1: Time taken by the boat to cover downstream distance of 32km. Speed of a boat in steel water is 6 kmph. The boat covers 32 km distance upstream in 8 hours.

Quantity 2: Speed of the current. Prashant and Ravi start swimming from two opposite ends of a river. Speed of Prashant in steel water is 4 km/h and speed of Ravi is 25% more than that of Prashant. If distance between two ends is 20 km and both meet at a point 16 km away from end of Prashant. (river is flowing from Prashant's end to Ravi's end)

- (a) Quantity 1 > Quantity 2
- (b) Quantity 1 < Quantity 2
- (c) Quantity 1 ≥ Quantity 2
- (d) Quantity 1 ≤ Quantity 2
- (e) Quantity 1 = Quantity 2 or relationship cannot be established.

Q60. Quantity 1: Time in which the whole work will be completed. Two persons X and Y together can dig a pit in 16 hours. They worked together for 4 hours and then a third person Z whose efficiency is half of their together's efficiency joins them.

Quantity 2: Age of youngest child. The sum of the age of 5 children born at the intervals of 3 years each is 50 years. (Compare only numerical value irrespective of unit)

- (a) Quantity 1 > Quantity 2
- (b) Quantity 1 < Quantity 2
- (c) Quantity 1 ≥ Quantity 2
- (d) Quantity 1 ≤ Quantity 2
- (e) Quantity 1 = Quantity 2 or relationship cannot be established

Directions (61-65): Find the approximate value of the following questions

Q61. $12.002 \times 15.005 - 8.895 \times 6.965 = ?$

- (a) 130
- (b) 117
- (c) 105
- (d) 110
- (e) 95

Q62. $105.1\% \text{ of } 8401.01 - \frac{3}{7}\% \text{ of } 5600.12 + 9.999 = ?$

- (a) 8880
- (b) 8080
- (c) 8850
- (d) 8760
- (e) 8806

Q63. $30.01^2 - 19.98^2 - ? = 21.97^2$

- (a) 49
- (b) 50
- (c) 30
- (d) 39
- (e) 16

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Q64. $(4.989)^2 + (21.012)^3 + \sqrt{1090} = ?$

- (a) 9219
- (b) 9391
- (c) 9319
- (d) 9129
- (e) 9643

Q65. $\sqrt[3]{65} \times 23.93 - 31.04 = ?$

- (a) 98
- (b) 65
- (c) 102
- (d) 35
- (e) 79

Q66. A tradesman gives 4% discount on the marked price and gives 1 article free for buying every 15 articles and thus gains 35%. The marked price is above the cost price by :

- (a) 40%
- (b) 39%
- (c) 20%
- (d) 50%
- (e) None of these

Q67. Present age of Sunita is 3 times the present age of Nita. 4 years hence twice the age of Sunita will be equal to thrice the age of Nita. Find the present age of Sunita.

- (a) 2 years
- (b) 5 years
- (c) 9 years
- (d) 6 years
- (e) 4 years

Q68. Average age of A, B and C is 10 year less than age of C. If ratio of age of A, B and C is 3 : 4 : 5 then what is the sum of age of A & C.

- (a) 80 year
- (b) 70 year
- (c) 85 year
- (d) 78 year
- (e) 72 year

Q69. Simple interest on a certain sum at 7 p.c.p.a for 4 years is Rs. 3584. What will be the compound interest on the same principal at 4 p.c.p.a. in two years?

- (a) Rs. 1054.48
- (b) Rs. 1044.48
- (c) Rs. 938
- (d) Rs. 1064.84
- (e) None of these

Q70. There is some profit when an article is sold for Rs. 720. However when the same article is sold for Rs. 420, there is some loss. If the quantum of loss is two times the quantum of profit, find the cost price of the article.

- (a) Rs. 620
- (b) Rs. 700
- (c) Rs. 520
- (d) Rs. 840
- (e) Cannot be determined

Directions (71-75): In the following questions, two quantities (Quantity 1 and 2) are given. You have to find each quantity and compare both quantities as-

- (a) Quantity 1 > Quantity 2
- (b) Quantity 1 < Quantity 2
- (c) Quantity 1 \geq Quantity 2
- (d) Quantity 1 \leq Quantity 2
- (e) Quantity 1 = Quantity 2 or relationship cannot be established.

Q71. Quantity 1: Simple interest on the same sum for same 4 years at the same rate of interest. The simple interest on a certain sum at a certain rate of interest for two years is Rs. 3200 and compound interest on the same sum at the same rate of interest for two years is Rs. 3520.

Quantity 2: Total income of Mr. Bansal. Out of his total income, Mr. Bansal spends 25% on house rent and 80% of the rest on house hold expenses. he saves Rs 1,320.

Q72. Quantity 1: Value of k. A sum at R% compound interest doubles in 3 years. In 9 years it will be k times of the original principal.

Quantity 2: Rate percent per annum at which Rs. 3000 amounts to Rs. 3993 in 3 years, if the interest in compounded annually?

Q73. Quantity 1: Time taken by B to cover the same distance as that by C. A is twice as fast as B and B is thrice as fast as C. C covers the same journey in 54 minutes.

Quantity 2: Time for which bus is stopped per hour. Excluding stoppages, the speed of a bus is 54 kmph and including stoppages, it is 45 kmph.

Q74. Quantity 2: Initial quantity of mixture in the bucket. There is a certain quantity of a mixture of sugar cane and water in a bucket. Due to a leak in the bottom of bucket 8 litre of mixture were gone out. At the same time leak was observed, leak was closed and filled with same quantity of water. The original ratio of sugar cane to water and new ratio of sugar cane to water is 13: 7 and 13: 9 respectively.

Quantity 1: $x: \frac{2x+21}{3x-18} = \frac{21}{26}$

Q75. Quantity 1: No. of blue tiles. The length and breadth of the floor of a room are 20 feet and 10 feet respectively. Square tiles of 2 feet length of three different colors are to be laid to the floor. Black tiles are laid in the first row on all sides. If white tiles are laid in the one-third of the remaining and blue tiles in the rest, how many blue tiles will be there?

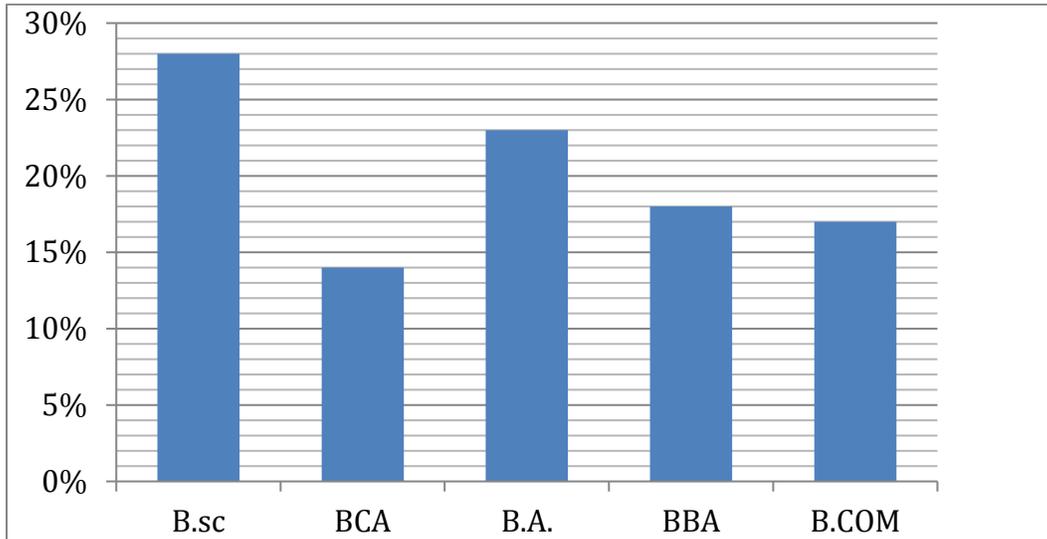
Quantity 2: $x: x^2 - 256 = 0$

Directions (76-80): Study the following pie chart and table carefully to answer the following questions that follow:

Bar graph shows the percentage of students who got their graduation degree in various streams from C.S.J.M. University and the table graph shows ratio of boys and girls who got graduation degree.

Total Number of students who got graduate degree from C.S.J.M= 1800

Percentage of distributed graduation degree in various streams



Ratio of Boys to Girls		
Stream	Boys	Girls
B.sc	11	1
BCA	1	3
B.A.	5	4
BBA	7	5
B.COM	2	7

Q76. What is the number of boys who got BBA degree from C.S.J.M. University ?

- (a) 132
- (b) 174
- (c) 126
- (d) 189
- (e) 198

Q77. The number of girls who got B.A. degree is approximately what per cent of the total number of students who got all types of graduate degree from C.S.J.M. University together given in the graph?

- (a) 7
- (b) 5
- (c) 19
- (d) 15
- (e) 10

Q78. What is the respective ratio of the number of girls who got BCA degree from C.S.J.M. University and the total number of students who obtained the same graduate degree?

- (a) 3 : 4
- (b) 2 : 5
- (c) 2 : 9
- (d) 3 : 7
- (e) None of these

Q79. What is the respective ratio of the number of boys who got B.com degree to the total number of students who got same degree?

- (a) 9 : 2
- (b) 7 : 6
- (c) 2 : 9
- (d) 6 : 7
- (e) 5 : 7

Q80. The number of boys who got B.sc degree from C.S.J.M. University is what per cent of total number of students who got the same degree ? (rounded off to two digits after decimal)

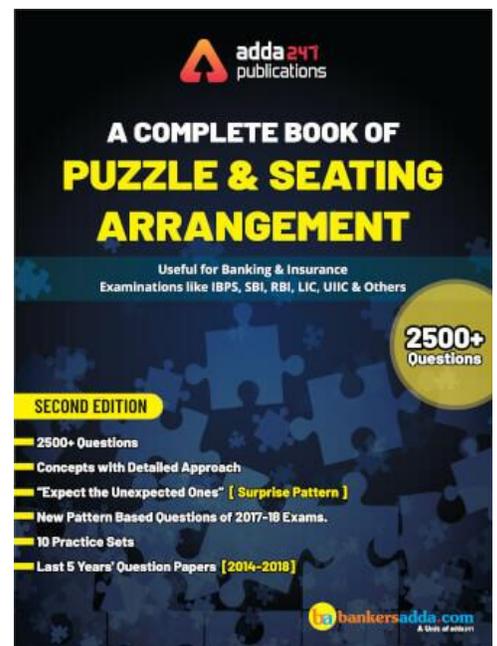
- (a) 89.76
- (b) 91.67
- (c) 88.56
- (d) 94.29
- (e) 82.37

Q81. The distance between two trains is 350 km and they approach towards each other on parallel tracks. If speed of one train is 80% of speed of other train and they take 10 hours to meet each other then find the speed of slower train.

- (a) $\frac{140}{9}$ km/hr
- (b) $\frac{80}{9}$ km/hr
- (c) $\frac{120}{7}$ km/hr
- (d) $\frac{185}{7}$ km/hr
- (e) $\frac{135}{7}$ km/hr

Q82. In how many different ways can the letters of the word 'BANKING' be arranged?

- (a) 5040
- (b) 2540
- (c) 5080
- (d) 2520
- (e) 2052



Q83. The sum of three fractions is $2\frac{11}{24}$. The ratio of the largest fraction to the smallest fraction is $\frac{7}{6}$, which is $\frac{1}{3}$ more than the middle fraction. Find the fractions.

(a) $\frac{1}{2}, \frac{2}{3}, \frac{3}{4}$

(b) $\frac{4}{3}, \frac{7}{8}, \frac{4}{5}$

(c) $\frac{1}{3}, \frac{5}{6}, \frac{3}{4}$

(d) $\frac{3}{4}, \frac{5}{6}, \frac{7}{8}$

(e) None of these

Q84. For a college, a selection committee is to be chosen consisting of 5 alumni. Now, there are 10 candidates from various zones. It has further been decided that if Mahesh is selected, Suresh will not be selected and vice versa. In how many ways can this be done?

(a) 140

(b) 132

(c) 196

(d) 154

(e) 256

Q85. Prakash and Prabhat can complete a work working together in 7.5 days. If Prakash first completes half of the work and then Prabhat completes the remaining half of the work, then the work gets completed in a total 20 days. In how many days can the slower of the two complete the work working alone?

(a) 25 days

(b) 20 days

(c) 15 days

(d) 30 days

(e) 10 days

Q86. A man engaged a servant on the condition that he would pay him Rs. 90 and a turban after service of one year. He served only for nine months and received the turban and an amount of Rs. 65. The price of turban is

(a) Rs. 25

(b) Rs. 18.75

(c) Rs. 10

(d) Rs. 2.50

(e) Rs. 5

Q87. A fraction becomes $\frac{1}{6}$ when 4 is subtracted from its numerator and 1 is added to its denominator. If 2 and 1 are respectively added to its numerator and the denominator. It becomes $\frac{1}{3}$. Then, the LCM of the numerator and denominator of the said fraction, must be

- (a) 14
- (b) 350
- (c) 5
- (d) 70
- (e) None of these

Q88. Two numbers are such that the sum of twice the first number and thrice the second number is 36 and the sum of thrice the first number and twice the second number is 39. Which is the smaller number?

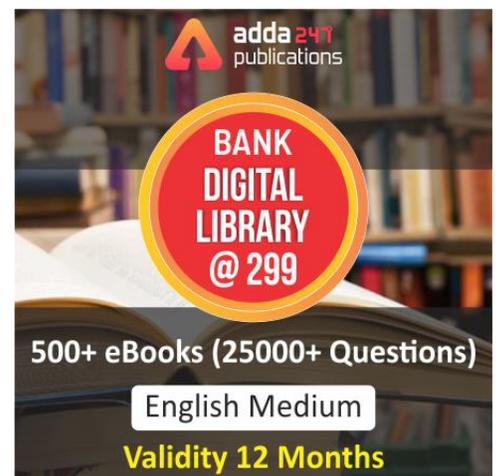
- (a) 9
- (b) 5
- (c) 7
- (d) 3
- (e) 6

Q89. 8 men and 4 women together can complete a piece of work in 6 days. The work done by a man in one day is double the work done by a woman in one day. If 8 men and 4 women started working and after 2 days 4 men left and 4 new women joined, in how many more days will the work be completed?

- (a) 5 days
- (b) 8 days
- (c) 6 days
- (d) 4 days
- (e) 9 days

Q90. If the compound interest on a sum for 2 years at $\frac{25}{2}\%$ per annum is Rs. 510, the simple interest on the same sum at the same rate for the same period of time is:

- (a) Rs. 400
- (b) Rs. 480
- (c) Rs. 450
- (d) Rs. 460
- (e) Rs. 420



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Q91. Two pipes A and B can fill a tank in 24 minutes and 32 minutes respectively. If both the pipes are opened simultaneously, after how much time should B be closed so that the tank is full in 18 minutes ?

- (a) 6
- (b) 8
- (c) 10
- (d) 11
- (e) None of these

Q92. A train travels a distance of 600 km at a constant speed. If the speed of the train is increased by 5 km/hr, the journey would take 4 hrs less. Find the speed of the train.

- (a) 100 km/hr
- (b) 25 km/hr
- (c) 50 km/hr
- (d) 75 km/hr
- (e) 80 km/hr

Q93. A tank is normally filled in 8 hours but takes 2 hours longer to fill because of a leak in its bottom. If the cistern is full, in how many hrs will the leak empty it ?

- (a) 45
- (b) 50
- (c) 40
- (d) 35
- (e) None of these

Q94. A grocer sells rice at a profit of 15% and uses weights which are 15% less than the market weight. The total gain percentage earned by him will be:

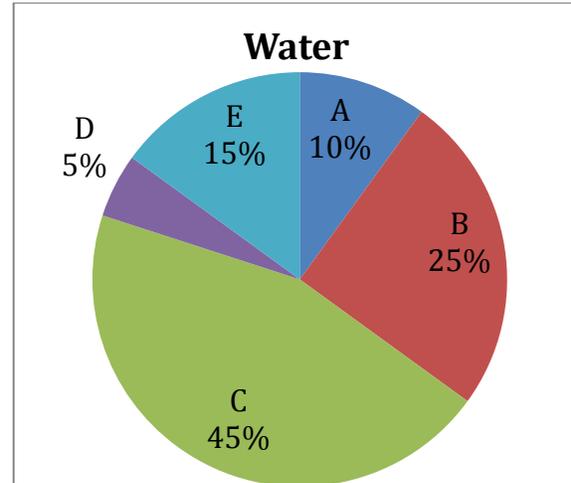
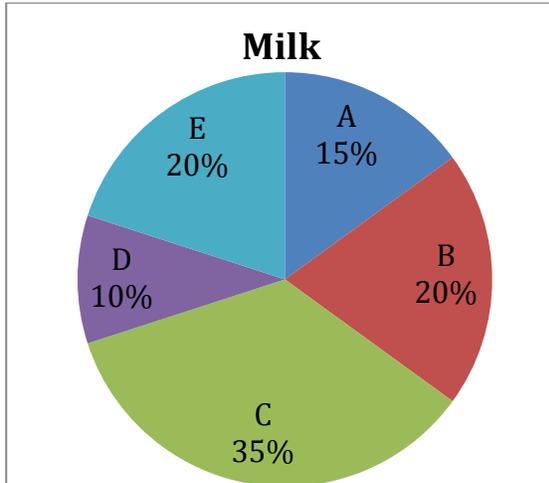
- (a) $36\frac{5}{17}\%$
- (b) $35\frac{5}{17}\%$
- (c) $31\frac{5}{17}\%$
- (d) $35\frac{3}{17}\%$
- (e) None of these

Q95. Two trains pass each other on parallel lines. Each train is 100 metres long. When they are going in the same direction, the faster one takes 60 seconds to pass the other completely. If they are going in opposite directions they pass each other completely in 10 seconds. Find the speed of the slower train in km/hr.

- (a) 30 km/hr
- (b) 42 km/hr
- (c) 48 km/hr
- (d) 60 km/hr
- (e) 56 km/hr

Directions (96-100): Read the given data carefully and answer the given question

Pie chart shows percentage distribution of total quantity of milk and water in five different vessels namely A, B, C, D and E



Total milk = 500 Lt

Total Water = 250 Lt

Q96. What is ratio of milk and water in F. If the mixture of vessel A and B is poured in the other vessel F.

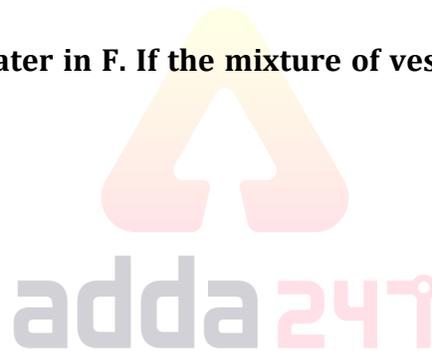
- (a) 87 : 47
- (b) 83 : 65
- (c) 70 : 39
- (d) 35 : 13
- (e) None of these

Q97. With the intention of cheating a shopkeeper sells mixture of vessel-D showing that he is taking only 4% profit over cost price. Find his actual profit. If he professes to sell pure milk and cost price is due to milk only

- (a) 40%
- (b) 30%
- (c) 25%
- (d) 35%
- (e) None of these

Q98. If 40% from vessel A and 50% from vessel E is taken out mixed together. Find the quantity of water in resultant mixture.

- (a) 28.75
- (b) 29.25
- (c) 27.50
- (d) 25
- (e) None of these



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Q99. What will be the final ratio of milk and water if all the vessels are poured into the bigger vessel except from vessel C only 50% of mixture is taken out

- (a) 2 : 1
- (b) 66 : 31
- (c) 3 : 2
- (d) 55 : 21
- (e) None of these

Q100. Find profit% after selling mixture at cost price from vessel B, C and D together. If one professes to sell pure milk and cost price is due to milk only (approximately)

- (a) 54%
- (b) 60%
- (c) 63%
- (d) 58%
- (e) 62%

Directions (101-105): What should come in place of question mark (?) in the following questions?

Q101. 115% of 4880 - 85% of 1640 = ?

- (a) 4218
- (b) 4368
- (c) 4448
- (d) 4628
- (e) None of these

Q102. $\sqrt[3]{9261} \times \sqrt{7225} = ? + 89$

- (a) 1824
- (b) 1296
- (c) 1424
- (d) 1696
- (e) 1096

Q103. 5.35 + 4.43 + 0.45 + 45.34 + 534 = ?

- (a) 597.27
- (b) 589.57
- (c) 596.87
- (d) 596.67
- (e) 557.67

Q104. 0.5% of 674 of 0.8% of 225 = ?

- (a) 7.066
- (b) 9.12
- (c) 6.066
- (d) 5.17
- (e) 60.66



Q105. 12% of 1885 = ? ÷ 6

- (a) 1248.4
- (b) 1292.2
- (c) 1312.6
- (d) 1357.2
- (e) 1347.2

Directions (106-110): In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x < y$
- (d) if $x \leq y$
- (e) if $x = y$ or no relation can be established between x and y .

Q106. I. $63x - 94\sqrt{x} + 35 = 0$

II. $32y - 52\sqrt{y} + 21 = 0$

Q107. I. $x^2 - 7\sqrt{3}x + 35\sqrt{15} - 5\sqrt{5}x = 0$

II. $y^2 - 5\sqrt{5}y + 30 = 0$

Q108. I. $11x + 5y = 117$

II. $7x + 13y = 153$

Q109. I. $6x^2 + 51x + 105 = 0$

II. $2y^2 + 25y + 78 = 0$

Q110. I. $x^2 - 12x + 27 = 0$

II. $y^2 + 5y - 84 = 0$

Directions (111-115): Each question is followed by three statements. You have to study the question and all the three statements given and decide whether any information provided in the statement(s) is redundant and can be dispensed with while answering the questions.

Q111. The average of temperatures of Sunday, Monday and Tuesday is 30°C . Find the temperature of Wednesday.

- A.** The sum of temperatures of Monday and Tuesday is 61°C .
 - B.** The sum of temperatures of Sunday, Monday, Tuesday and Wednesday is 122°C .
 - C.** The temperature of Wednesday is 3°C more than that of Sunday.
- (a) A only
 - (b) B only
 - (c) A and C only
 - (d) Either B alone or A and C together
 - (e) None of these



Q112. A person purchases an article from a shop for Rs. 11640 and the shopkeeper bears some losses. How much amount was required by the wholesaler to purchase the article if the wholesaler directly sold the article to the shopkeeper?

- A. The difference between the C.P. of the shopkeeper and that of the person is Rs 360.
- B. Cost price of shopkeeper is $16\frac{2}{3}\%$ less than that of wholesaler.
- C. The wholesaler earns a profit of 20%.
- (a) Any of them
- (b) Any two of them
- (c) Either B or C
- (d) A and either B or C
- (e) None of these

Q113. What is the compound interest on a sum?

- A. An amount becomes Rs 4410 at the compound rate of 5% in 18 months.
- B. An amount becomes Rs 5324 in 3 years.
- C. Compound rate of interest is 10%
- (a) Either A alone or B and C together
- (b) B and C together
- (c) Either B or C
- (d) Only C
- (e) None

Q114. 6 men and 9 women can do a work in 14 days. In how many days can 12 men and 3 women do the same work?

- A. 20 men and 33 women can do the same work in 4 days.
- B. Work done by 2 men is equal to 3 women.
- C. 6 women can do two-thirds of the same work in 28 days.
- (a) Any one of them
- (b) Only C
- (c) Only C and either A or B
- (d) Any two of them
- (e) Only either A or B

Q115. What is the area of the rectangle?

- A. Perimeter of the rectangle is 80 m.
- B. The total cost of flooring the rectangle at Rs. 2 per square metre is Rs 750.
- C. Breadth of the rectangle is 15 m.
- (a) Only B
- (b) A and B together
- (c) Either B alone or A and C together
- (d) None
- (e) A and C together

Q116. Circumference of a circle -A is $1\frac{4}{7}$ times perimeter of a square. Area of the square is 784 sq cm. What is the area of another circle-B whose diameter is half the radius of the circle -A?

- (a) 38.5 sq. cm
- (b) 156 sq. cm
- (c) 35.8 sq. cm
- (d) 616 sq. cm
- (e) None of these

Q117. The product of the present ages of Sakshi and Nidhi is 320. Eight years from now, Sakshi's age will be three times the age of Nidhi. What was the age of Sakshi when Nidhi was born?

- (a) 40 years
- (b) 32 years
- (c) 48 years
- (d) 36 years
- (e) 26 years

Q118. A train travels a distance of 600 km at a constant speed. If the speed of the train is increased by 5 km/hr, the journey would take 4 hrs less. Find the speed of the train.

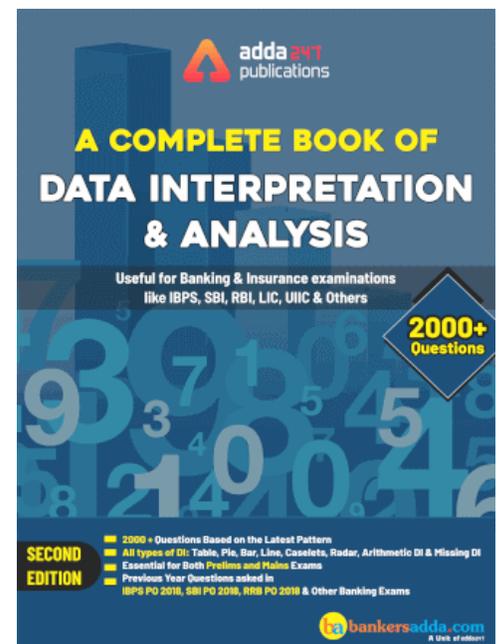
- (a) 100 km/hr
- (b) 25 km/hr
- (c) 50 km/hr
- (d) Cannot be determined
- (e) None of these

Q119. If the ages of P and R are added to twice the age of Q, the total becomes 59. If the ages of Q and R are added to thrice the age of P, the total becomes 68 and if the age of P is added to thrice the age of Q and thrice the age of R, the total becomes 108. What is the age of P?

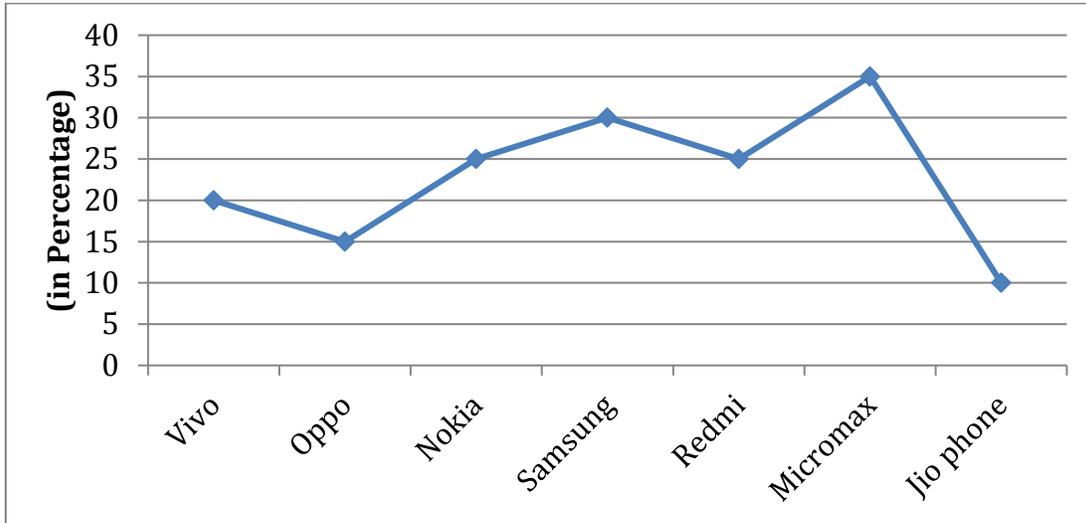
- (a) 19 years
- (b) 15 years
- (c) 17 years
- (d) 12 years
- (e) None of these

Q120. On selling a Pen at 5% loss and a book at 15% gain, Karim gains Rs. 7. If he sells the Pen at 5% gain and the book at 10% gain, then he gains Rs. 13. The actual price of the book is

- (a) Rs. 100
- (b) Rs. 80
- (c) Rs. 10
- (d) Rs. 400
- (e) Rs. 180



Directions (121-125): The line graph below shows the profit made on selling a unit of mobile as a percent of selling price. The table shows the cost price of each brand of mobile sold by the shop 'MOBILE WALA'.



Brand	Cost per unit (in Rs.)
Vivo	6000
Oppo	3000
Nokia	5000
Samsung	7000
Redmi	2500
Micromax	3500
Jio Phone	4500

Q121. If the total profit made by shop 'Mobile Wala' on selling mobiles of brand Vivo was Rs. 13,500, then find the number of units sold by the shop?

- (a) 9
- (b) 11
- (c) 10
- (d) 8
- (e) 15

Q122. If shop 'Mobile Wala' sold 10 units of mobile of brand Samsung, then find the total selling price of all these 10 units sold and profit made on each unit.

- (a) Rs. 100000, Rs. 3000
- (b) Rs. 100000, Rs. 5000
- (c) Rs. 120000, Rs. 4000
- (d) Can't be determined
- (e) None of these

Q123. The average C.P. of a unit of Vivo, Oppo and Jio Phone each is approximately what percent more/less than the average C.P of a unit of Samsung, Jio Phone and Nokia each ?

- (a) 20.12%
- (b) 16.66%
- (c) 18.18%
- (d) 15.75%
- (e) 17.5%

Q124. If the shop made a profit of 20% on each unit of mobile of brand Nokia and Oppo, then find the overall selling price of 8 units of brand Nokia and 6 units of brand Oppo?

- (a) Rs. 77,600
- (b) Rs. 74,800
- (c) Rs. 72,400
- (d) Rs. 75,900
- (e) None of these

Q125. Find the ratio of S.P. of brand Jio Phone to that of Samsung?

- (a) 6 : 5
- (b) 1 : 2
- (c) 5 : 6
- (d) can't be determined
- (e) None of these

Q126. In a bag there are three types of colored balls i.e, yellow, green and Red. The probability of getting one yellow ball is $\frac{2}{5}$ and the probability of selecting one green ball is $\frac{3}{7}$. If total number of Red balls are 18 then find the probability of selecting one red ball.

- (a) $\frac{6}{35}$
- (b) $\frac{7}{26}$
- (c) $\frac{4}{35}$
- (d) $\frac{2}{35}$
- (e) $\frac{8}{35}$

Q127. There are 5 multiple choice questions in an examination. How many sequences of answers are possible, if the first three questions have 4 choices each and the next two have 6 choices each?

- (a) 2804
- (b) 3456
- (c) 7776
- (d) 2304
- (e) 1024

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Q128. A positive integer is selected at random and is divided by 11. Find the probability that the remainder is not an even number?

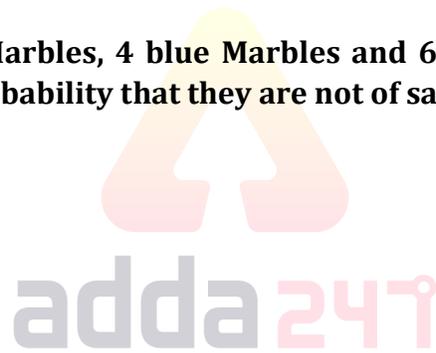
- (a) $\frac{3}{11}$
- (b) $\frac{8}{11}$
- (c) $\frac{5}{11}$
- (d) $\frac{9}{11}$
- (e) $\frac{7}{11}$

Q129. In how many different ways can letter of the word "COMPLAINT" be arranged in such a way that vowels occupy only the odd positions?

- (a) 1440
- (b) 43200
- (c) 18040
- (d) 5420
- (e) 54000

Q130. A bucket contains 2 red Marbles, 4 blue Marbles and 6 Green Marbles. Two marbles are drawn at random. What is the probability that they are not of same color?

- (a) $\frac{5}{11}$
- (b) $\frac{14}{33}$
- (c) $\frac{2}{5}$
- (d) $\frac{6}{11}$
- (e) $\frac{2}{3}$



Directions (131-135): What will come in place of (?) in the following no. series?

Q131. 121, 144, 190, 259, ?, 466

- (a) 351
- (b) 349
- (c) 374
- (d) 328
- (e) 317

Q132. 8, 64, 216, 512, 1000, 1728, ?

- (a) 4096
- (b) 2744
- (c) 3375
- (d) 2197
- (e) 4913

Q133. 3, 4, 10, 33, 136, 685, ?

- (a) 3430
- (b) 4802
- (c) 5145
- (d) 4116
- (e) 5488

Q134. 16, 12, 18, 40.5, 121.5, 455.625, ?

- (a) 2050.1125
- (b) 2050.2125
- (c) 2050.3125
- (d) 2050.4125
- (e) 2050.5125

Q135. 4, 18, 48, 100, 180, 294, ?

- (a) 448
- (b) 424
- (c) 436
- (d) 460
- (e) 412

Q136. A is twice as efficient as B. Both can complete a work together in $7\frac{1}{2}$ days.

Quantity 1: Time taken by B to complete the work alone.

Quantity 2: If C is 50% more efficient than A, then time taken by C to complete the work alone.

- (a) Quantity 1 > Quantity 2
- (b) Quantity 1 \geq Quantity 2
- (c) Quantity 2 > Quantity 1
- (d) Quantity 2 \geq Quantity 1
- (e) Quantity 1 = Quantity 2 or Relation cannot be established

Q137. One of the roots of $2x^2 + bx - 5 = 0$ is 1.

Quantity 1: Value of the other root.

Quantity 2: 2.5

- (a) Quantity 1 > Quantity 2
- (b) Quantity 1 \geq Quantity 2
- (c) Quantity 2 > Quantity 1
- (d) Quantity 2 \geq Quantity 1
- (e) Quantity 1 = Quantity 2 or Relation cannot be established



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Q138. Two dices are rolled simultaneously.

Quantity 1: Probability that the sum of the numbers that appeared is a multiple of 5.

Quantity 2: $1/6$

- (a) Quantity 1 > Quantity 2
- (b) Quantity 1 \geq Quantity 2
- (c) Quantity 2 > Quantity 1
- (d) Quantity 2 \geq Quantity 1
- (e) Quantity 1 = Quantity 2 or Relation cannot be established

Q139. Sum of height and diameter of the cylinder is 28 meter.

Quantity 1: Curved surface area of the cylinder whose respective ratio of height to diameter is 3 : 4

Quantity 2 : Curved surface area of the cylinder if height of cylinder is 10 m.

- (a) Quantity 1 > Quantity 2
- (b) Quantity 1 \geq Quantity 2
- (c) Quantity 2 > Quantity 1
- (d) Quantity 2 \geq Quantity 1
- (e) Quantity 1 = Quantity 2 or Relation cannot be established

Q140. Product of digits of a two digits number 'N' is 21.

Quantity 1 : N

Quantity 2 : $130-N$

- (a) Quantity 1 > Quantity 2
- (b) Quantity 1 \geq Quantity 2
- (c) Quantity 2 > Quantity 1
- (d) Quantity 2 \geq Quantity 1
- (e) Quantity 1 = Quantity 2 or Relation cannot be established

Direction (141-145): Data given below shows total articles sold by three retailers. Study the data carefully and answer the following questions.

Rahul → Total cost price of 60 articles is Rs. 27,000

Ayush → Total selling price for Ayush is 20% more than total selling price for Rahul. And selling price of each article for Ayush is same as Cost price of each article for Rahul. Cost price of each article for Ayush is Rs.150 less than Selling price of each article for Neeraj.

Neeraj → Total profit earned by Neeraj is thrice than that of total profit earned by Rahul and sold 30 articles more than Rahul. Total cost price for Neeraj is same as total Selling price for Ayush. Cost price of each article is Rs.400 for Neeraj

Total Selling Price = Total Cost Price + Total Profit

Total Cost Price = Number of articles sold \times Cost Price of each article

Q141. Find total profit earned by Ayush?

- (a) None of the given options
- (b) Rs. 9000
- (c) Rs.3000
- (d) Rs.6000
- (e) Rs.8000

Q142. Average number of articles sold by Rahul, Ayush, Neeraj and Satish is 85. Find total number of articles sold by Satish?

- (a) 100
- (b) 110
- (c) 90
- (d) 120
- (e) None of the given options

Q143. Cost price of each article for Ayush is what percent more/less than Selling price of each article for Rahul?

- (a) 25%
- (b) $42\frac{6}{7}\%$
- (c) 10%
- (d) 30%
- (e) 20%

Q144. Out of total articles sold by Neeraj and Ayush, 30% and 50% were defective respectively. Find total number of non-defective articles sold by Neeraj and Ayush together?

- (a) 67
- (b) 97
- (c) 103
- (d) 113
- (e) None of the given options

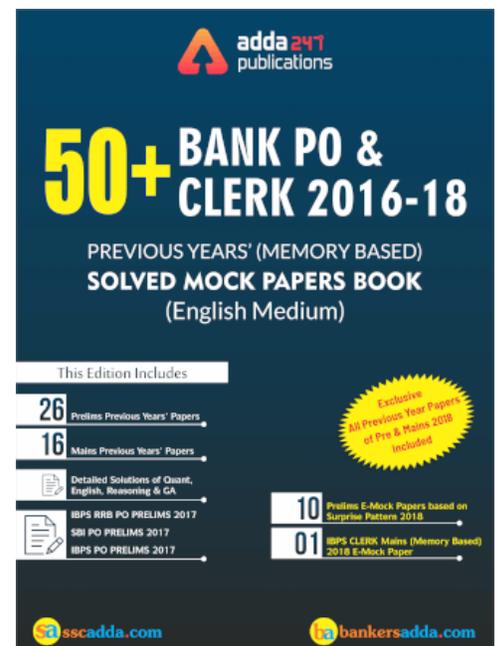


Q145. Find the ratio between total selling price for Rahul to total Selling price for Neeraj?

- (a) 2 : 3
- (b) 3 : 2
- (c) None of the given options
- (d) 5 : 6
- (e) 6 : 5

Q146. Mixture containing milk and water in ratio of 2 : 3 has volume of 30 liters. If 10 L of water is added to it then find the ratio of milk to water in the mixture?

- (a) 7 : 9
- (b) 3 : 7
- (c) 3 : 5
- (d) 2 : 3
- (e) 5 : 7



Q147. Average weight of 10 boys in a class is 56 kg and that of 5 girls is 54 kg. Two boys of 54 kg and 78 kg respectively and a girl of 55 kg left the class. Find the average of remaining students in that class.

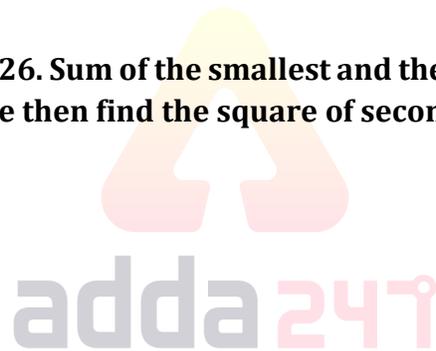
- (a) $54\frac{7}{12}$ kg
- (b) $55\frac{7}{12}$ kg
- (c) $51\frac{7}{12}$ kg
- (d) $53\frac{7}{12}$ kg
- (e) $52\frac{7}{12}$ kg

Q148. The circumference of two circles is 132 m and 176 m respectively. What is difference between the area of larger circle and smaller circle ? (in m^2)

- (a) 1052
- (b) 1128
- (c) 1258
- (d) 1078
- (e) 1528

Q149. Average of four numbers is 26. Sum of the smallest and the largest number is 55. If difference between other two numbers is one then find the square of second smallest number.

- (a) 576
- (b) 625
- (c) 529
- (d) 484
- (e) 676



Q150. The average age of Ram and his son, five years ago was 27.5. Ram's present age is five years more than thrice of his son's present age. Find ratio of their present ages?

- (a) 14 : 9
- (b) 15 : 4
- (c) 20 : 7
- (d) 10 : 3
- (e) 9 : 5

Directions (151-155): Find out the wrong number in the following number series.

Q151. 14, 29, 41, 63, 65, 131, 133

- (a) 63
- (b) 131
- (c) 29
- (d) 41
- (e) 133

Q152. 2478, 819, 257, 84, 24, 5

- (a) 257
- (b) 24
- (c) 5
- (d) 819
- (e) 1

Q153. 4, 6, 12, 30, 90, 315, 1240

- (a) 315
- (b) 90
- (c) 6
- (d) 12
- (e) 1240

Q154. 289, 266, 285, 270, 281, 275, 277

- (a) 266
- (b) 275
- (c) 277
- (d) 281
- (e) 285

Q155. 7, 13, 49, 295, 2305, 23041

- (a) 7
- (b) 13
- (c) 49
- (d) 295
- (e) 2305

Q156. A and B started a business with the investments in the ratio of 5 : 3 respectively. After 6 months from the start of the business, C joined them and the respective ratio between the investments of B and C was 2 : 3. If the annual profit earned by them was Rs. 12,300, what was the difference between B's share and C's share in the profit ?

- (a) Rs. 900
- (b) Rs. 800
- (c) Rs. 600
- (d) Rs. 400
- (e) Rs. 700

Q157. A person bought two tables for Rs. 2200. He sells one at 5% loss and the other at 6% profit and thus on the whole he neither gains nor loses. Find the cost price of each table.

- (a) Rs. 1500, Rs. 700
- (b) Rs. 2000, Rs. 200
- (c) Rs. 1200, Rs. 1000
- (d) Rs. 1100, Rs. 1100
- (e) Rs. 1150, Rs. 1050

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Q158. The average of the age of Sumit, Krishna and Rishabh is 43 years and the average of the age of Sumit, Rishabh and Rohit is 49 years. If Rohit is 54 years old, what is Krishna's age?

- (a) 45 years
- (b) 24 years
- (c) 36 years
- (d) Cannot be determined
- (e) None of these

Q159. Pankaj bought a new house, 2% of the total price of the house will be given to broker as commission. 5% of the price of house is Rs. 2.5 lacs then what is the amount earned by the broker ?

- (a) Rs. 1,00,000
- (b) Rs. 10,000
- (c) Rs. 5,00,000
- (d) Rs. 15,000
- (e) Rs. 20,500

Q160. The difference between compound interest and simple interest on a certain sum at 10% per annum for 3 years is Rs. 124. What is the sum ?

- (a) Rs. 4000
- (b) Rs. 8000
- (c) Rs. 12400
- (d) Rs. 6200
- (e) Rs. 8400

Directions (161-165): Refer to the table given below and answer the given questions.

Table shows the 5 colony and total population and percentage of males, females and children in each colony in year 2016. Some data are missing, find the missing data to answer the given questions.

Colony	Total population	Percentage of males	Percentage of females	Percentage of children
A	2400	25%	—	—
B	—	—	40%	20%
C	—	50%	20%	—
D	800	—	—	16%
E	—	—	24%	36%

Note : Don't treat children as male or female. Treat them separately.

Q161. If the ratio of population of females and children in colony A in year 2016 is 3 : 7, and female in colony A in year 2017 is increased by 20% from that of year 2016. Then find the total number of males and children in colony A in year 2017 so that overall population in year 2017 is same as in year 2016 ?

- (a) 1752
- (b) 1852
- (c) 2752
- (d) 3200
- (e) 1527

Q162. If number of children in colony C in year 2016 is 180 and ratio of male and females in colony D in year 2016 is 1 : 2. Then find the difference of males in colony C and colony D?

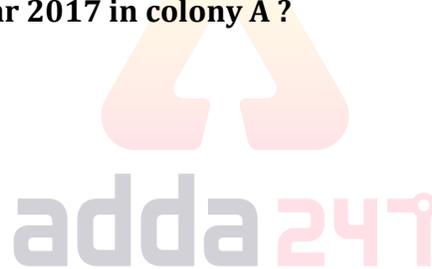
- (a) 96
- (b) 86
- (c) 76
- (d) 55
- (e) 67

Q163. If total population of colony B and colony C together in year 2016 is 25% more than the total population of colony A in year 2016 and ratio of total population of colony B and colony C in year 2016 is 2 : 3. Then find the ratio of males in colony B to children in colony C in year 2016 ?

- (a) 9 : 8
- (b) 8 : 9
- (c) 2 : 3
- (d) 3 : 5
- (e) 3 : 2

Q164. If ratio of males of colony D in year 2016 to the females in colony A in year 2016 is 2 : 5 and population of children in colony A is increased by 20% in year 2017 from year 2016. Then find the total population of children in year 2017 in colony A ?

- (a) 2000
- (b) 1200
- (c) 1500
- (d) cannot be determined
- (e) None of these



Q165. If ratio of total population of colony C to colony E in year 2016 is 5 : 4. Then number of males in colony E in year 2016 is what percent more or less than the number of children in colony C in year 2016 ?

- (a) 5.67%
- (b) 12%
- (c) 10%
- (d) 3.334%
- (e) 6.67%

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