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Directions (1-5): What should come in place of question mark (?) in the following number series?

Q1. 561, 642, 763, 932, 1157, ?
(a) 1446
(b) 1326
(c) 1482
(d) 1246
(e) 1426

Q2. 1524, 1443, 1394, ?, 1360, 1359
(a) 1303
(b) 1218
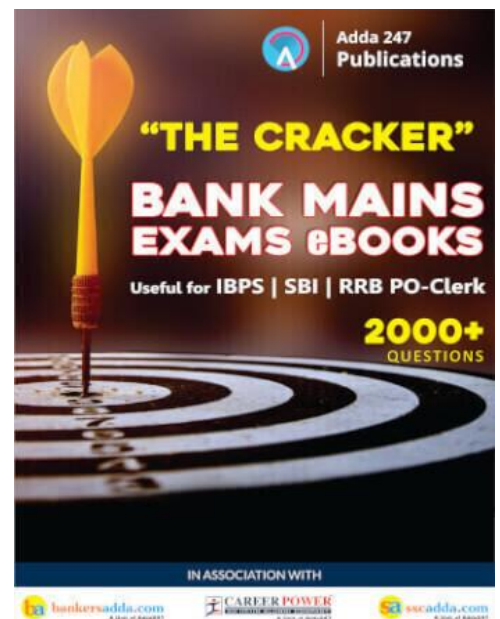(c) 1359
(d) 1369
(e) 1569

Q3. 8, 24, 49, 85, 134, ?
(a) 189
(b) 176
(c) 198
(d) 201
(e) 321

Q4. 3, 10, 15, 26, 35, ?
(a) 63
(b) 50
(c) 60
(d) 54
(e) 80

Q5. 1543, 1440, 1337, ?, 1131
(a) 1233
(b) 1234
(c) 1235
(d) 1238
(e) 1433

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Q6. Bag 1 has three yellow and four blue balls and bag 2 has four yellow and three blue balls. One bag is selected at random and a ball drawn out of it. Find the probability that the ball drawn is yellow.

(a) $\frac{1}{2}$

(b) $\frac{12}{49}$

(c) $\frac{3}{7}$

(d) $\frac{5}{7}$

(e) None of these

Q7. Two dice are thrown. The probability that both of them show an even number greater than 2 is:

(a) $\frac{1}{36}$

(b) $\frac{1}{6}$

(c) $\frac{2}{3}$

(d) $\frac{1}{4}$

(e) $\frac{5}{36}$

Q8. Three cards are drawn from a pack of cards at random. What is the probability that they consist of two different colors?

(a) $\frac{11}{17}$

(b) $\frac{13}{17}$

(c) $\frac{13}{15}$

(d) $\frac{15}{17}$

(e) $\frac{13}{24}$

Q9. In a group of 4 boys and 6 girls, four children are to be selected. In how many different ways can they be selected such that at least one girl should be there?

(a) 159

(b) 194

(c) 205

(d) 209

(e) 224

Q10. Find total number of the 3 digits even numbers by using the digits 2, 3, 4, 5 when repetition of digits is allowed.

(a) 32

(b) 12

(c) 15

(d) 18

(e) 24

Directions (11-15): Study the following pie-charts carefully and answer the questions given below them.

The given pie chart shows the fund that an organization gets from different sources is equal to Rs. 16 crores. The other pie chart shows the distribution/investment of fund in different sections.
[**Note:** Total fund received in pie chart 1 are utilized in different sectors pie chart 2]
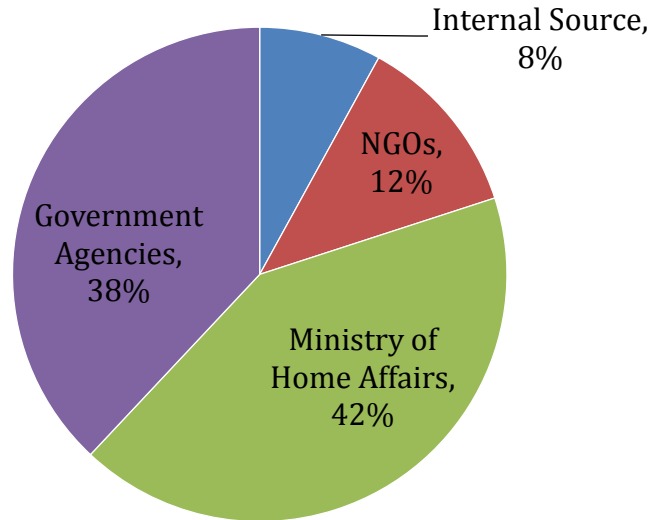
Sources of funds in the organisation

Internal Source, 8%
NGOs, 12%
Government Agencies, 38%
Ministry of Home Affairs, 42%
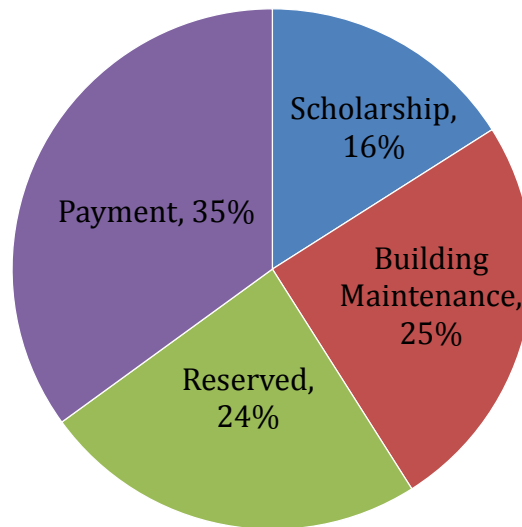
Use of fund by the organisation

Scholarship, 16%
Payment, 35%
Building Maintenance, 25%
Reserved, 24%

Q11. What is the difference between the fund acquired by the organization from NGOs and that from Government Agencies?
(a) Rs. 43268000
(b) Rs. 38650000
(c) Rs. 46800000
(d) Rs. 52860000
(e) None of the above

Q12. If the organization managed Building Maintenance from the Ministry of Home Affairs fund only, how much fund from the Ministry of Home Affairs would still be left for other use?
(a) Rs. 2.72 crore
(b) Rs. 7.23 crore
(c) Rs. 5.20 crore
(d) Rs. 3.06 crore
(e) Rs. 8.03 crore

Q13. If the Scholarship has to be paid out of the fund from Government Agencies, find what is the percentage of Government Agencies fund used for this purpose.
(a) $42\frac{2}{19}\%$
(b) $38\frac{3}{5}\%$
(c) $31\frac{2}{9}\%$
(d) 48.3%
(e) 52%

Q14. What is the total amount used by the organization for Payment?
(a) Rs. 4.8 crore
(b) Rs. 6.3 crore
(c) Rs. 5.6 crore
(d) Rs. 9.73 crore
(e) None of the above
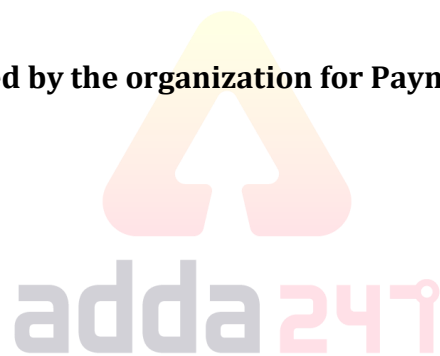
Q15. What is the amount of fund acquired by the organization from Ministry of Home Affairs?
(a) 6.25 crores
(b) 6.2 crores
(c) 6.72 crores
(d) 9.25 crores
(e) None of the above

Directions (16-17): In the following questions, two quantities I and II are given. You have to find these quantities to give answer
(a) If Quantity I > Quantity II
(b) If Quantity II > Quantity II
(c) If Quantity I = Quantity II
(d) If Quantity I ≥ Quantity II
(e) If Quantity I ≤ Quantity II

Q16. Quantity I. Capacity of the water tank. There is a hole in the water tank which can empty it in 8 hours. A pipe is opened which fills 6 litre water per minute in tank and now tank is emptied in 12 hours.

Quantity II. Simple interest of a sum of money at the same rate of interest for 2 years. Compound interest of the same sum of money for 2 years at 4 per cent per annum is Rs. 2,448.

Q17. Quantity I. Present average age of Abhishek and Rohit. The ratio of age of Abhishek and Rohit 4 year before was 4: 5 and Ratio of their ages 2 years later will be 5: 6.

Quantity II. Initial quantity of mixture. A vessel contains mixture of milk and water in ratio 3: 1. if 20 liters of mixture is taken out and 15 liters of milk is added then ratio of milk and water becomes 4: 1.

Q18. Three vessels contain equal mixtures of acid and water in the ratio 6 : 1, 5 : 2 and 3 : 1 respectively. If all the solutions are mixed together, the ratio of acid to water in the final mixture will be
(a) 64 : 65
(b) 65 : 19
(c) 19 : 65
(d) 64 : 19
(e) 39 : 17

Q19. A manufacturer has 200 litres of Acid solution which has 15% acid content. How many litres of solution with 30% Acid content may be added so that Acid content in the resulting mixture will be more than 20% but less than 25%
(a) More than 100 litres but less than 300 litres
(b) More than 120 litres but less than 400 litres
(c) More than 100 litres but less than 400 litres
(d) More than 120 litres but less than 300 litres
(e) None of these

Q20. In a rectangular plot of 24m × 16m two roads of 1.5m wide each as shown in figure were made. If cost of making road is Rs. 310 per m^2 then find the cost of making whole road.
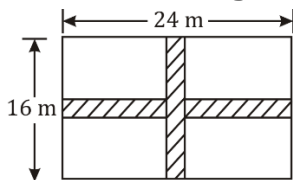
(a) Rs. 22000.50
(b) Rs. 18850
(c) Rs. 17902.50
(d) Rs. 14603
(e) None of these

Directions (21-25): Study the information carefully and answer the questions.

In a college, 150 students of MBA are enrolled. The ratio of boys to girls is 7:8. There are five disciplines out of which three main disciplines namely Marketing, HR and Finance, in the college (Students are enrolled in all the disciplines). In Marketing discipline there are 50% girls of their total number and the boys are 40% of their total number. In HR discipline, girls are 30% of their total number while boys are also 30% of their number. In Finance, no. of boys are 30% of total boys and girls are 20% of total girls.
7 boys and 9 girls are enrolled in HR and Marketing both. 6 boys and 7 girls are enrolled in HR and finance together. 5 boys and 8 girls are enrolled in Marketing and Finance both. 2 boys and 3 girls are enrolled in all the three disciplines.

Q21. What percentage of students are enrolled in all the three disciplines?
(a) 3.3%
(b) 7.2%
(c) 8.5%
(d) 9.32%
(e) None of these

Q22. What is the ratio of boys to girls only in Marketing disciplines?
(a) 13:9
(b) 9:13
(c) 9:11
(d) 11:9
(e) None of these
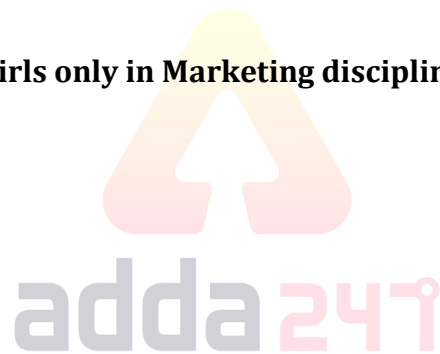
Q23. The ratio of number of boys in Marketing and Finance both to that of girls only in Finance is?
(a) 5:3
(b) 3:5
(c) 5:4
(d) 4:7
(e) None of these

Q24. By what per cent is the number of boys in Marketing discipline is more than the number of girls in HR discipline?
(a) $13\frac{1}{3}\%$
(b) $33\frac{1}{3}\%$
(c) $14\frac{2}{3}\%$
(d) $16\frac{2}{3}\%$
(e) None of these

Q25. The ratio of boys to girls enrolled only in HR discipline is
(a) 10:11
(b) 9:10
(c) 7:5
(d) 5:7
(e) None of these

Directions (26-30): What value should come in place of question mark (?) in the following equations?

Q26. 28% of 85 + 13.2 =?
(a) 35
(b) 37
(c) 39
(d) 41
(e) 47

Q27. $\frac{7}{5}$ of 58 + $\frac{3}{8}$ of 139.2 =?
(a) 133.4
(b) 137.2
(c) 127.8
(d) 131.6
(e) 121.6

Q28. $\sqrt[3]{17576} + \sqrt[3]{4096}$ =?
(a) 42
(b) 44
(c) 46
(d) 48
(e) 52

Q29. 84368 + 65466 − 72009 − 13964 =?
(a) 61481
(b) 62921
(c) 63861
(d) 64241
(e) 66481

Q30. 12% of 555 + 15% of 666 =?
(a) 166.5
(b) 167.5
(c) 168.5
(d) 169.5
(e) 179.5

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Q31. The sum of four numbers is 64. If you add 3 to the first number, 3 is subtracted from the second number, the third is multiplied by 3 and the fourth is divided by three, then all the results are equal. What is the difference between the largest and the smallest of the original numbers?
(a) 32
(b) 27
(c) 21
(d) Cannot be determined
(e) None of these

Q32. Ms. Pooja Pushpan invests 13% of her monthly salary, i.e. Rs. 8554 in mediclaim Policies. Later she invests 23% of her monthly salary on Child Education Policies. Also, she invests another 8% in her monthly Funds. What is the total monthly amount invested by Ms. Pooja Pushpan?
(a) Rs. 28952
(b) Rs. 43428
(c) Rs. 347424
(d) Rs. 173712
(e) None of these

Q33. The batting average of 40 innings of a cricket player is 50 runs. His highest score exceeds his lowest score by 172 runs. If these two innings are excluded the average of the remaining 38 innings is 48. His highest score was:
(a) 172
(b) 173
(c) 174
(d) 176
(e) None of these
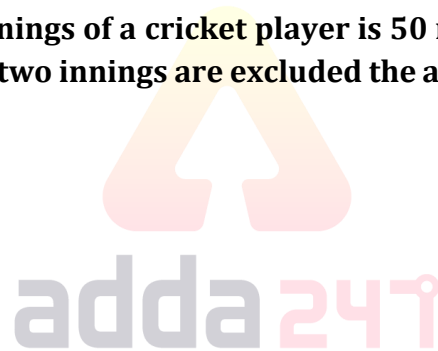
Q34. A vessel contains liquid P and Q in the ratio 5 : 3. If 16 L of the mixture are removed and the same quantity of liquid Q is added, the ratio become 3 : 5. What quantity does the vessel hold?
(a) 35 L
(b) 45 L
(c) 40 L
(d) 50 L
(e) None of these

Q35. Several litres of acid were drawn off a 54 L vessel full of acid and an equal amount of water added. Again, the same volume of the mixture 2 was drawn off and replaced by water. As a result the vessel contained 24 L of pure acid. How much of the acid was drawn off initially?
(a) 12 L
(b) 16 L
(c) 18 L
(d) 24 L
(e) None of these

Directions (36-40): Find out the approximate value which should replace the question mark (?) in the following questions. (You are not expected to find out the exact value)

Q36. 459% of 849.947 + 266.5% of 6284.012 – 1486.002 = ?
(a) 20330
(b) 12640
(c) 15000
(d) 22160
(e) 19170

Q37. 21.0091 – 6.085 + 13.24 = (3.5 + ?) × 2
(a) 24.5
(b) 15.5
(c) 6.5
(d) 20.5
(e) 10.5

Q38. $\sqrt[3]{65} \times 23.93 - 31.04 = ?$
(a) 98
(b) 102
(c) 65
(d) 79
(e) 35

Q39. $1702 \div 68 \times 136.05 = 50 \times ?$
(a) 80
(b) 74
(c) 77
(d) 68
(e) 63

Q40. 69.99% of $1401 - 13.99\%$ of $1299 = ?$
(a) 700
(b) 720
(c) 770
(d) 800
(e) 740

Directions (41-45): The table below gives the production capacity (in thousand units) and the percent utilization in respect of three products (A, B and C) over five years for an organization. Study the table carefully and answer the questions that follow.

Year	Product					
	A		B		C	
	Capacity	Utilization	Capacity	Utilization	Capacity	Utilization
2010	170	70%	28	75%	240	40%
2011	200	63%	35	60%	260	40%
2012	200	65%	30	80%	270	40%
2013	210	60%	40	50%	260	45%
2014	225	60%	40	55%	260	50%

Q41. Find the average utilization of product 'C' over the given years.
(a) 11100
(b) 101000
(c) 111000
(d) 120000
(e) None of these

Q42. Total production capacity of three products in 2010 is by what percent more or less than total utilization in year 2014 ?
(a) 50.2%
(b) 52.6%
(c) 68.8%
(d) 60.2%
(e) 58.5%

Q43. What is the difference in the total production of A in 2010 and 2011 together and utilization of C in 2012, 2013 and 2014 together?
(a) 15500
(b) 14500
(c) 16000
(d) 14505
(e) None of these

Q44. If in year 2013, all the unsatisfied products are recycled and reproduced in some quantity and among them 80% were utilized, then find the unutilized products at last.
(a) 44,800
(b) 49,400
(c) 44,900
(d) 49,000
(e) None of these

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Q45. Find the ratio of sum of capacity of A and C in 2011 and difference of the utilization of A and C in 2013.
(a) 460 : 11
(b) 360 : 91
(c) 406 : 9
(d) 306 : 11
(e) 460 : 9

Q46. A person deposited Rs. 400 for 2 years, Rs. 550 for 4 years and Rs. 1200 for 6 years. He received the total simple interest of Rs. 1020. The rate of interest per annum is (rate of interest in each case is same)
(a) 10%
(b) 5%
(c) 15%
(d) 20%
(e) 25%

Q47. Rs. 12,000 is divided into two parts so that the simple interest on the first part for 3 years at 12% per annum may be equal to the simple interest on the second part for 4½ years at 16% per annum. The ratio of the first part to the second part is
(a) 2 : 1
(b) 1 : 2
(c) 2 : 3
(d) 3 : 2
(e) 3 : 5

Q48. A machine is sold at a profit of 10%. Had it been sold for Rs. 80 less, there would have been a loss of 10%. The cost price of the machine is:
(a) Rs. 350
(b) Rs. 450
(c) Rs. 400
(d) Rs. 520
(e) Rs. 540

Q49. The marked price of a watch is Rs. 1600. The shopkeeper give successive discounts of 10% and x% to the customer. If the customer pays Rs. 1224 for the watch, the value of x is:
(a) 5
(b) 10
(c) 15
(d) 20
(e) 30
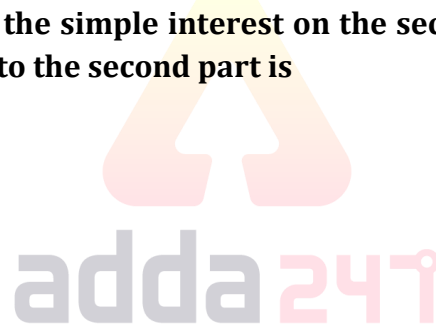
Q50. A sum of money becomes Rs. 4500 after two years and Rs. 6750 after 4 years on compound interest. The sum is:
(a) Rs. 4000
(b) Rs. 2500
(c) Rs. 3000
(d) Rs. 3050
(e) Rs. 3500

Directions (51-55): What approximate value will come in place of question mark (?) in the following questions?

Q51. 399.89 ÷ 7.88 × 11.88 + 249.87 – 189.88 =?
(a) 755
(b) 655
(c) 680
(d) 555
(e) 695

Q52. 47.89% of 449.9 8+ 52.01% of 439.89 = $\frac{4}{5}$ of ?
(a) 456
(b) 655
(c) 556
(d) 756
(e) 856

Q53. $\sqrt[3]{1727} + \sqrt{675} + \sqrt[4]{1295} - \sqrt[3]{1332}$ =?
(a) 43
(b) 24
(c) 45
(d) 33
(e) 21

Q54. 43.05% of 799.89 + 56.89% of 899.89 =?
(a) 857
(b) 785
(c) 587
(d) 875
(e) 890

Q55. 114.88% of 559.88 + 83.98% of 419.88 =?
(a) 721
(b) 799
(c) 697
(d) 997
(e) 897

Directions (56-60): The following table shows the no. of students who applied for various posts in DMRC recruitment from five different states in a certain year.

Study the table carefully to answer the following questions.
Note: Some data in the table are missing. Find them if they are required in any question.
Note: One student can apply against only one post.

States	No. of students applied for various posts				
	JE	AE	SC/TO	AMT	AMO
UP	—	—	40,000	10,500	8,400
Delhi	20,000	—	36,000	7,200	4,800
MP	12,500	8,400	—	5,400	—
Haryana	16,400	12,400	—	—	2,400
Rajasthan	—	—	24,000	3,600	3,200

Q56. If ratio of total no. of students from UP who applied for JE and AE respectively is 81 : 61 and total no. of candidates from U.P is 1,15,700 then total no. of candidates from UP who applied for the post of AE is
(a) 28,400
(b) 22,400
(c) 24,400
(d) 24,000
(e) 20,800

Q57. If the average no. of candidate from Delhi who applied for the various posts is 16,880 then total no. of candidate who applied for the post of AE from Delhi is what percent of no. of candidates from same state who applied for AMT?
(a) $272\frac{7}{9}\%$
(b) $227\frac{7}{9}\%$
(c) $223\frac{7}{9}\%$
(d) $229\frac{7}{9}\%$
(e) None of these

Q58. If 60% students out of total students from Haryana who applied for the post of JE are having Electrical Engineering as their essential qualification, then total no. of candidates from Rajasthan who applied for JE is: (It is given that total students from Rajasthan who applied for JE is 150% of the no. of Electrical Engineering students who applied for the post of JE from Haryana)
(a) 12,760
(b) 14,670
(c) 16,470
(d) 14,760
(e) 18,460

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Q59. Total no. of students from MP who applied for the post of SC/TO is 80% of the total no. of students who applied for JE from Delhi. Find total no. of students from MP who applied for the post JE, AE, SC/TO and AMT together.
(a) 42,300
(b) 43,200
(c) 45,300
(d) 44,300
(e) 41,200

Q60. If $\frac{225}{14}$% students out of total students from all the states together who applied for the post of AMO, are from MP then find the no. of students from MP who applied for the post of AMO.
(a) 4800
(b) 3200
(c) 3600
(d) 2800
(e) 5400

Directions (61-65): The following questions are accompanied by three statements I or A, II or B and III or C. You have to determine which statement(s) is/are sufficient/ necessary to answer the questions and mark your answer accordingly

Q61. What is the age of the Renuka in her family?
I. Total age of Renuka, her father, her mother & her sister is 90 years.
II. Average age of Renuka, her mother and her sister is 18 years and 4 months.
III. Average age of her mother and sister is four seventh of her father's age.
(a) Only I & II
(b) Only I & III
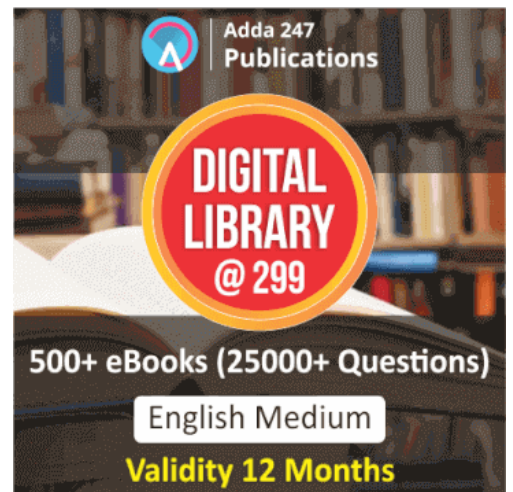(c) Only II & Ill
(d) All I, II & III
(e) None of these

Q62. What is the selling price of the sofa set if no discount is offered?
I. Profit earned was 20%
II. Had 10% discount been offered on selling price the profit would have been Rs. 1200.
III. Cost price is Rs. 15000.
(a) Any two of the three
(b) Only I & II
(c) Only I I & III
(d) Only II & III
(e) None of these

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Q63. 12 girls and 8 children can complete a piece of work in 24 days together. How many days will it take for 12 men and 12 girls to complete the same work?

A. 2 men can do as work as 3 girls and 2 children can do together.

B. 3 girls can do as work as 6 children can do.

C. All of them together can complete the entire work in $\frac{768}{67}$ $days$.

(a) Any two of them
(b) Only from A and B
(c) Only C
(d) Either A or B only
(e) No need of any information

Q64. A ball of lead 4 cm in diameter is covered with gold. If the volume of the gold and lead are equal, then the thickness of gold [given $\sqrt[3]{2}$ = 1.259] is approximately
(a) 5.038 cm
(b) 5.190 cm
(c) 1.038 cm
(d) 0.518 cm
(e) 5.18 cm

Q65. The outer circumference of a 1 cm thick pipe is 44 cm. How much water will 7 cm of the pipe hold? $\left(\text{take } \pi = \frac{22}{7}\right)$
(a) 1078 cm^3
(b) 1792 cm^3
(c) 303 cm^3
(d) 792 cm^3
(e) 972 cm^3
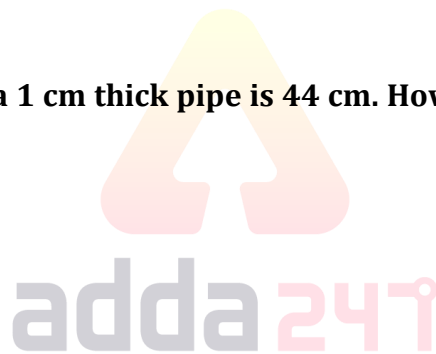
Directions (66-70): Find the approximate value of the following questions.

Q66. 67.99% of 1401 – 13.99% of 1299 = ?
(a) 700
(b) 720
(c) 770
(d) 800
(e) 740

Q67. 5466.97 – 3245.01 + 1122.99 = ? + 2309.99
(a) 1130
(b) 1000
(c) 1100
(d) 1035
(e) 1060

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Q68. 5998 ÷ 9.98 + 670.99 – 139.99 = ?

(a) 1080

(b) 1280

(c) 1180

(d) 1130

(e) 1230

Q69. $-(4.99)^3 + (29.98)^2 - (3.01)^4 = ?$

(a) 554

(b) 594

(c) 624

(d) 654

(e) 694

Q70. $\sqrt{3135} \times \sqrt{577} \div \sqrt{255} = ? \div 8$

(a) 620

(b) 670

(c) 770

(d) 750

(e) 700

Directions (71-75): 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.

Q71. 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

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Q72. 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

Q73. 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

Q74. 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

Q75. 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%

Q76. Two trains having equal lengths, takes 1/4 minutes and 1/6 minutes respectively to cross a pole. In what time will they cross each other when travelling in opposite direction (in seconds)? Given the length of each train is 420 meters. (Neglect the length of pole)
(a)18 sec
(b) 12 sec
(c) 20 sec
(d) 24 sec
(e) 10 sec

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Q77. A car runs at the speed of 40 km/h when not serviced and runs at 65 km/h, when serviced. After servicing the car covers a certain distance in 5 h. How much approximate time will the car take to cover the same distance when not serviced?

(a) 10
(b) 7
(c) 12
(d) 8
(e) 6

Q78. Find the speed of a boat in still water if the boat goes downstream 6 km and back to the starting point in 2 hours and the rate of flow of river water is 4 km/hr.

(a) 8 km/hr
(b) 7 km/hr
(c) 12 km/hr
(d) 4 km/hr
(e) 6 km/hr

Q79. If the sum of upstream and downstream speed is 36 km/hr and the speed of the current is 3km/hr, then find time taken to cover 52.5 km in downward?

(a) 2 hr
(b) 2.5 hr
(c) 3 hr
(d) 3.5 hr
(e) 4 hr

Q80. Two place P and Q are 160 km apart. A train leaves P for Q and at the same time another train leaves Q for P. Both the trains meet 5 hrs after they start moving. If the train travelling from P to Q travels 6 km/hr faster than the other train, find the speed of the faster train.

(a) 19 km/hr
(b) 13 km/hr
(c) 21 km/hr
(d) Can't be determined
(e) None of these

Directions (81-85): What will come in place of question mark (?)

Q81. $3^? \div 81 = 243 \times 729$

(a) 15
(b) 16
(c) 12
(d) 18
(e) 10

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Q82. 0.001 + 1.0001 + 1.101 − 0.0001 = ?
(a) 3.1020
(b) 1.1020
(c) 2.1020
(d) 0.01020
(e) 5.0101

Q83. ? % of 540 − 280 ÷ 7 = $\frac{4}{7}$ of 343
(a) $39\frac{19}{27}$
(b) 41
(c) 43
(d) $41\frac{27}{19}$
(e) $43\frac{19}{27}$

Q84. $\dfrac{0.356 \times 0.356 - 2 \times 0.356 \times 0.106 + 0.106 \times 0.106}{0.632 \times 0.632 + 2 \times 0.632 \times 0.368 + 0.368 \times 0.368}$ =?
(a) 60.25
(b) 6.025
(c) 0.625
(d) 0.0625
(e) 6.2505

Q85. $48 \div 12 \times \left(\frac{9}{8} \text{ of } \frac{4}{3} \div \frac{3}{4} \text{ of } \frac{2}{3}\right)$ =?
(a) 10
(b) 14
(c) 12
(d) $5\frac{1}{3}$
(e) 14

Directions (86-90): The graph suggests the no. of consumers and consumption of electricity units in five years. Electricity units are given in Lacks while the no. of consumers is given in thousand. Read the graph and answer the question.

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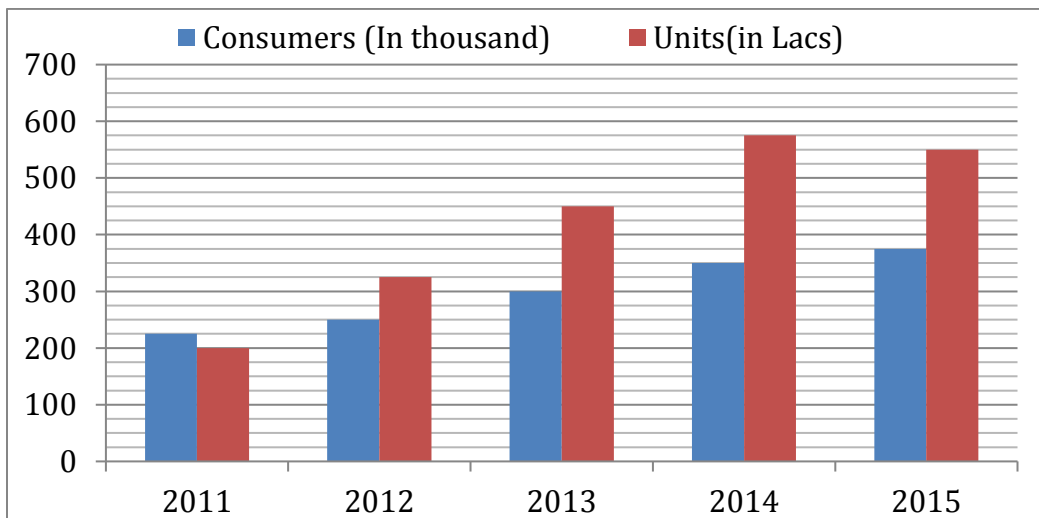
Q86. What is the ratio of electricity consumption per consumer in 2012 to the same in 2015?
(a) 39 : 44
(b) 77 : 79
(c) 11 : 19
(d) 9 : 7
(e) None of the above

Q87. If no of consumers in 2016 is 120% more than in 2011 while the consumption remains same as in 2015, then what will be the impact of no of units consumed by a consumer in 2016 when compared to electricity consumption per consumer in 2015?
(a) + 42 units
(b) + 36 Units
(c) – 36 units
(d) – 42 units
(e) None of the above

Q88. Electricity consumption in 2012 will be approximately how many times the total no. of consumer all over the years?
(a) 23.67
(b) 21.67
(c) 25.67
(d) 19.34
(e) 27.67

Q89. Total no of units in 2011 and 2013 are approximately what % more or less than Total units in 2012 & 2014 together?
(a) 20% more
(b) 28% more
(c) 29% less
(d) 28% less
(e) 32% more

Q90. In which of the following year, the ratio of unit consumption to the no. of consumers is maximum?
(a) 2011
(b) 2015
(c) 2014
(d) 2013
(e) 2012

Q91. A started a work and left after working for 3 days. Then, B was called and he finished the work in $13\frac{1}{2}$ days. Had A left the work after working for $4\frac{1}{2}$ days, B would have finished the remaining work in 9 days. In how many days can each of them, working alone, finish the whole work?
(a) 7.5 days, 22.5 days
(b) 7 days, 9 days
(c) 5 days, 15 days
(d) 23.5 days, 8.5 days
(e) None of these

Q92. Three members of a family A, B and C, work together to get all household chores done. The time it takes them to do the work together is six hours less than A would have taken working alone, one hour less than B would have taken alone, and half the time C would have taken working alone. How long did it take them to do these chores working together?
(a) 20 minutes
(b) 30 minutes
(c) 40 minutes
(d) 50 minutes
(e) None of these

Q93. A pump can be operated both for filling a tank and for emptying it. The capacity of tank is 2400 m³. The emptying capacity of the pump is 10 m³ per minute higher than its filling capacity. Consequently, the pump needs 8 minutes less to empty the tank than to fill it. Find the filling capacity of the pump.
(a) 45 m³/minute
(b) 30 m³/minute
(c) 50 m³/minute
(d) 55 m³/minute
(e) None of these

Q94. 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 th0ese

Q95. Sonu covers a distance of 90 km in 5 hours. He covers some part of distance by cycle at the speed of 15 km/hr and rest part covers by bus running at a speed of 20 km/hr. Find what distance he cover by cycle ?
(a) 56 km
(b) 36 km
(c) 54 km
(d) 30 km
(e) None of these

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Directions (96-100): What should come in place of the question mark (?) in the following number series.

Q96. 325, 314, 292, 259, 215, ?
(a) 126
(b) 116
(c) 130
(d) 160
(e) 180

Q97. 45, 46, 70, 141, ?, 1061.5
(a) 353
(b) 353.5
(c) 352.5
(d) 352
(e) 252.5

Q98. 620, 632, 608, 644, 596, ?
(a) 536
(b) 556
(c) 656
(d) 646
(e) 836

Q99. 15, 25, 40, 65, ?, 195
(a) 115
(b) 90
(c) 105
(d) 120
(e) 110

Q100. 120, 320, ?, 2070, 5195, 13007.5
(a) 800
(b) 920
(c) 850
(d) 900
(e) 820

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Direction (101-105): The following bar graph and table show the total number of persons who are smoker and ratio of male to female in them in five different cities of India. Study the graph carefully to answer the following questions.
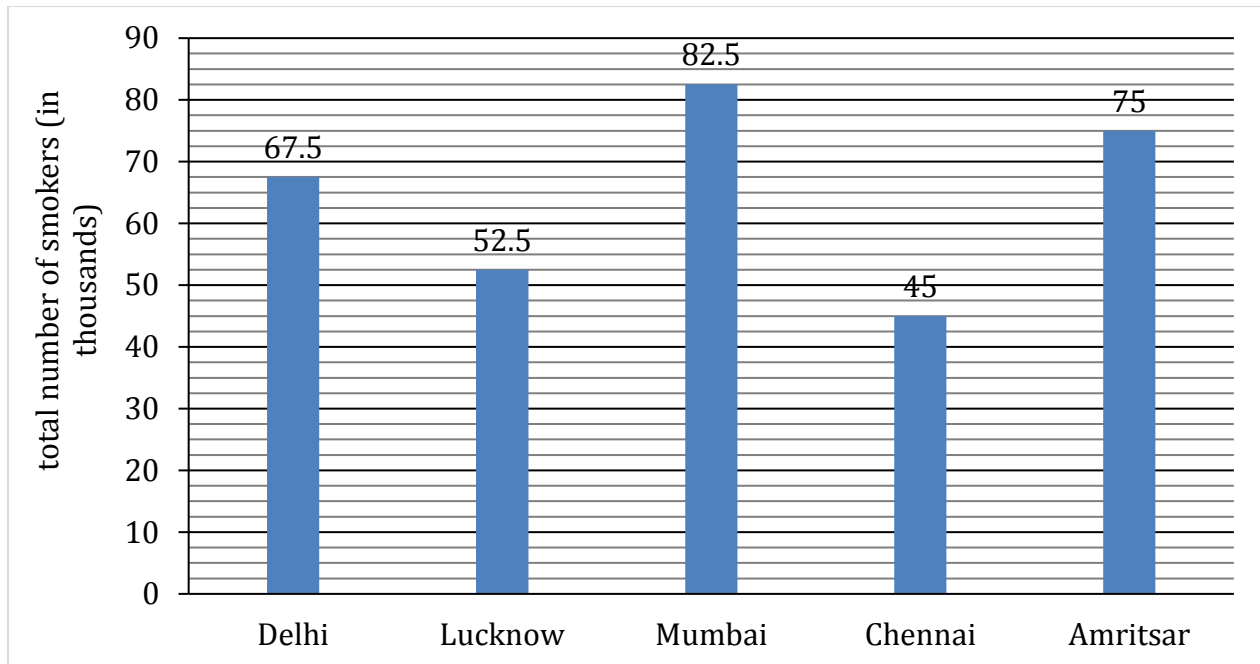
| City | Ratio of male to female smokers |
	Male : Female
Delhi	5 : 4
Lucknow	11 : 4
Mumbai	3 : 2
Chennai	5 : 1
Amritsar	17 : 8

Q101. If 20% population of Delhi is smoker then total no. of male smokers in Delhi is approximately what percent of total population of Delhi who is not smoker?
(a) 18%
(b) 14%
(c) 12%
(d) 11%
(e) 10%

Q102. If one person died out of four, due to smoking in city Mumbai then total no. of persons who died due to smoking in Mumbai is what percent of total female population in Mumbai who are smoker?
(a) 52.6%
(b) 65.2%
(c) 62.5%
(d) 60%
(e) 60.5%

Q103. If three fifth of total population of Lucknow is smoker then what is the ratio of males who are smoker in Lucknow to the total population who is not smoker in Lucknow?

(a) 12 : 13

(b) 13 : 12

(c) 10 : 11

(d) 11 : 10

(e) 9 : 11

Q104. What is the difference between average of males and average of females who are smoker in all the five cities?

(a) 20,200

(b) 21,100

(c) 20,110

(d) 22,100

(e) 24,000

Q105. If 10%, 20% and 25% persons leave smoking due to fear of cancer in cities Delhi, Channai and Amritser respectively then what is the ratio of males who are still smoking in these cities respectively (The ratio of male and female remains)?

(a) 51 : 40 : 45

(b) 40 : 45 : 51

(c) 45 : 40 : 51

(d) 45 : 51 : 40

(e) 51 : 45 : 40

Q106. Arun is thrice as good a workman as Rahim and therefore is able to finish a job in 20 days less than Rahim. How many days will they take to finish the job working together?

(a) $10\frac{1}{4}$

(b) $11\frac{1}{2}$

(c) $7\frac{1}{2}$

(d) $7\frac{1}{4}$

(e) $12\frac{1}{2}$

Q107. Twenty-four men can complete a work in sixteen days. Thirty-two women can complete the same work in twenty-four days. Sixteen men and sixteen women started working and worked for twelve days. How many more men are to be added to complete the remaining work in 2 days?

(a) 48

(b) 24

(c) 36

(d) 30

(e) 32

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Q108. Rinki starts working on a job and continues for 15 days and completes 36% of the work. To complete the work, she employs Kirti and together they work for 20 days and completed the work. What will be the efficiency ratio of Rinki and Kirti?
(a) 7 : 5
(b) 4 : 3
(c) 5 : 3
(d) 1 : 3
(e) 3 : 1

Q109. A train covers 180 km distance in 4 hours. Another train covers the same distance in 1 hour less. What is the difference in the distances covered by these trains in one hour if they are moving in the same direction?
(a) 45 km
(b) 9 km
(c) 10 km
(d) 12 km
(e) 15 km

Q110. Krishnan 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

Directions (111-115): Study the following table carefully to answer the questions that follow–

Year \ Company	Percent profit earned by six companies over the years					
	P	Q	R	S	T	U
2004	11	12	3	7	10	6
2005	9	10	5	8	12	6
2006	4	5	7	13	12	5
2007	7	6	8	14	14	7
2008	12	8	9	15	13	5
2009	14	12	11	15	14	8

Note: profit = income – expenditure

Expenditure = $\frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100$

Q111. If the profit earned by Company R in the year 2008 was Rs. 18.9 lakhs, what was the income in that year?
(a) Rs. 303.7 lakhs
(b) Rs. 264.5 lakhs
(c) Rs. 329.4 lakhs
(d) Rs. 228.9 lakhs
(e) Rs. 229.8 lakhs

**Q112. What is the percentage rise in profit of Company T in year 2009 from the year 2004?**
(a) 40 %
(b) 35 %
(c) 26 %
(d) 48 %
(e) 42 %

Q113. If the profit earned by Company P in the year 2007 was Rs. 2.1 lakhs, what was the expenditure in that year?
(a) Rs. 30 lakhs
(b) Rs. 15 lakhs
(c) Rs. 23 lakhs
(d) Rs. 27 lakhs
(e) Rs. 32 lakhs

Q114. What was the average of percentage value of profit of Company S over all the years together?
(a) 13.5
(b) 11
(c) 12
(d) 14
(e) 12.5
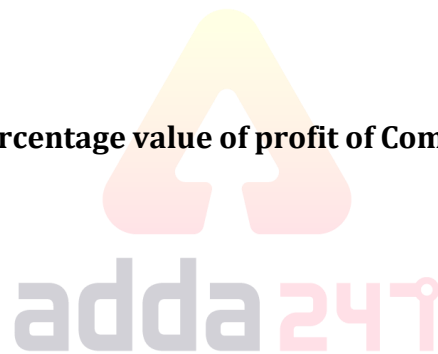
Q115. What is the difference between the per cent value of profit earned by Company Q in the year 2005 and the average of percentage value of profit earned by the remaining Companies together in that year?
(a) 4
(b) 2
(c) 1
(d) 3
(e) 5

Directions (116-120): What will come in place of question mark (?) in the following number series ?

Q116. 25   30 49 56 81 90 ? 132
(a) 90
(b) 72
(c) 99
(d) 121
(e) 132

Q117. 600 75 12.5 ? 1.5625
(a) 31.25
(b) 3.125
(c) 2.315
(d) 32.15
(e) 4.125

Q118. 6   19   71   279   1111   ?
(a) 4439
(b) 3439
(c) 3454
(d) 5439
(e) 4349

Q119. 4   18   60   186   564   ?
(a) 1581
(b) 1686
(c) 1498
(d) 1698
(e) 1689

Q120. 12   13   28   87   352   ?
(a) 1665
(b) 1765
(c) 1656
(d) 1675
(e) 1865

Directions (121-122): Compare the value of 2 quantities given in the question and give answer
(a) if quantity I > quantity II
(b) if quantity I < quantity II
(c) if quantity I ≥ quantity II
(d) if quantity I ≤ quantity II
(e) if quantity I = quantity II or no relation can be established

Q121. Quantity 1: Difference between selling price of both items. A merchant buys two items for Rs 7500. One item he sells at a profit of 16% and the other item at 14% loss. In the deal the merchant makes neither any profit nor any loss.
Quantity 2: Cost price of article B. The cost price of article A is Rs. 200 more than the cost price of article B. Article A was sold at 10% loss and article B was sold at 25% profit. Overall profit percentage after selling both the articles is 4%.

Q122. Quantity 1: Distance covered by 'A' and 'B'. Two persons A and B started running from the same point in same direction and reaches at another point. The ratio of their speeds is 3 : 4, the difference of time taken by them is 45 minutes and the sum of their speeds is 28 kmph.

Quantity 2: Per kg selling price of remaining wheat to get an overall profit of 25%. A shopkeeper bought 30 kg. of wheat at the rate of Rs. 45 per kg. He sold 40 per cent of the total quantity at the rate of Rs. 50 per kg.

Q123. One type of liquid contains 30% of milk, the other contains 45% of milk. A container is filled with 3 parts of the first liquid and 7 parts of the second liquid. The percentage of milk in the mixture is:
(a) 40.5%
(b) 41%
(c) 39%
(d) 38.5%
(e) 42.5%

Q124. A shopkeeper gave an additional 15 per cent concession on the reduced price after giving 20 per cent standard concession on an article. If Arpit bought that article for Rs. 1,360, what was the original price?
(a) Rs. 3000
(b) Rs. 2400
(c) Rs. 2500
(d) Rs. 2000
(e) Rs. 2800

Q125. In how many ways the word 'SPECIES' can be arranged such that P and C are always at two ends?
(a) 120
(b) 60
(c) 30
(d) 50
(e) 240

Direction (126-128): Data given below about total number of students doing B. TECH from two IIT's and distribution of students under different stream. Read data carefully and answer the questions:

Total number of students doing B. TECH from IIT Mumbai are 20% more than total students doing B. TECH from IIT Delhi. Out of total students doing B. TECH from IIT Mumbai 40% in CS stream, 20% in Mechanical stream and remaining are in Electrical stream. Total students in CS stream in IIT Mumbai are 140% more than Total students in CS stream in IIT Delhi. Total students in Mechanical stream in IIT Delhi are two times of Total students in Mechanical stream in IIT Mumbai. Remaining 240 students are in Electrical stream in IIT Delhi.

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Q126. Total Students in CS stream in IIT Mumbai are what percent less than total students in Mechanical & Electrical stream together in IIT Delhi?
(a) 35%
(b) 40%
(c) 75%
(d) 50%
(e) 55%

Q127. Find the difference between average number of students in CS streams in both IIT and average number of students in Electrical stream in both the IIT's?
(a) 48
(b) 30
(c) 36
(d) 40
(e) 45

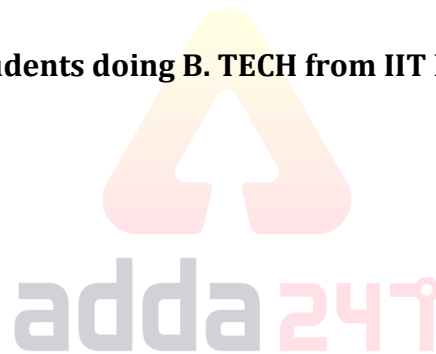**Q128. Find average number of students doing B. TECH from IIT Mumbai and from IIT Delhi?**
(a) 815
(b) 855
(c) 825
(d) 845
(e) 805

Q129. The surface area of a sphere is 423.5 cm² less than total surface area of a hemisphere. If Ratio between radius of hemisphere and sphere is 3 : 2, then find the radius of hemisphere?
(a) 5.5 cm
(b) 5 cm
(c) 4 cm
(d) 7 cm
(e) 10.5 cm

Q130. A bottle is full of wine. One-third of it is taken out and then an equal amount of water is poured into the bottle to fill it. The operation is done four times. Find the final ratio of wine and water in the bottle.
(a) 13 : 55
(b) 20 : 74
(c) 16 : 65
(d) 10 : 48
(e) None of these

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Direction (131–135): What approximate value should come in the place of question (?) marks in the given questions:

Q131. $55.01 \times 47.98 - ? \% \text{ of } 7999.93 = (11.89)^3 + 68.11 \times 4.01$
(a) 8
(b) 12
(c) 16
(d) 2
(e) 18

Q132. $\dfrac{352.09 + ?}{31.98} + 125.11\% \text{ of } 63.98 - \sqrt{361.05} = (10.11)^2$
(a) 848
(b) 896
(c) 832
(d) 820
(e) 872

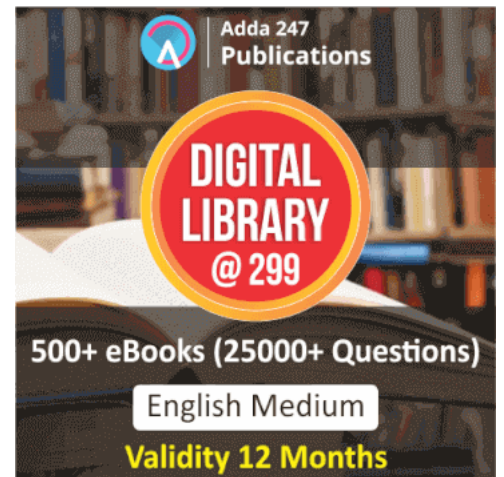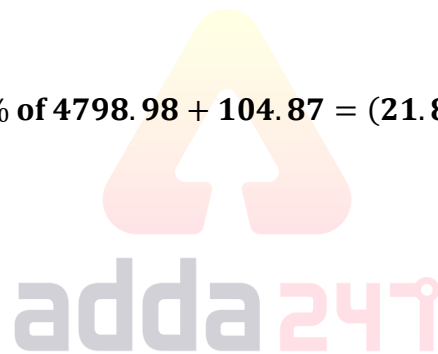**Q133.** $\dfrac{4589.79}{?} + (24.89)^2 - 36.89\% \text{ of } 4798.98 + 104.87 = (21.86)^2$
(a) 10
(b) 8
(c) 12
(d) 3
(e) 19

Q134. $44.03 \times 24.98 + 48.03 \times 14.99 + ? = 32.07\% \text{ of } 6000.09$
(a) 120
(b) 100
(c) 140
(d) 160
(e) 180

Q135. $? \% \text{ of } 699.97 + (20.87)^2 - \sqrt{3843.86} = (17.91)^3$
(a) 779
(b) 484
(c) 684
(d) 729
(e) 801

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Directions (136-138): Compare the value (only magnitude) of 2 quantities given in the question and give answer

(a) if quantity I > quantity II

(b) if quantity I < quantity II

(c) if quantity I ≥ quantity II

(d) if quantity I ≤ quantity II

(e) if quantity I = quantity II or no relation can be established

Q136. Quantity 1: Extra no. of men included in the work. 40 men could have finished the whole project in 28 days, but due to the inclusion of a few more men, work got done in ¾ of the time.

Quantity 2: Abby's age two years ago. The sum of present ages of Ria and Abby is 48 years. Today Abby is 4 years older than Shweta. The respective ratio of the present ages of Ria and Shweta is 4 : 7.

Q137. Quantity 1: Sum of Manish's and Suresh's scores. Average score of Rahul, Manish and Suresh is 63. Rahul's score is 15 less than Ajay and 10 more than Manish. If Ajay scored 30 marks more than the average score of Rahul, Manish and Suresh.

Quantity 2: Selling price of Mayank. Sharad sells some articles to Chandra at a profit of 20%. Chandra now sells this article to Mayank at a loss of 30% and Mayank sells this article at a profit of 20%. CP of Chandra is Rs 150.

Q138. Quantity 1: Length of train B. Train A, travelling at 90 kmph, overtook train B, traveling in the same direction, in 5 seconds. If train B had been traveling at twice its speed, then train A would have taken 15 seconds to overtake it. Length of train B is half the length of train A.

Quantity 2: Shilpa's present age. The sum of Shilpa's age after 4 years and Raghu's age 4 years ago is 63 years and respective ratio between the Shilpa's age four years ago and Raghu's age after 3 years is 10: 21.
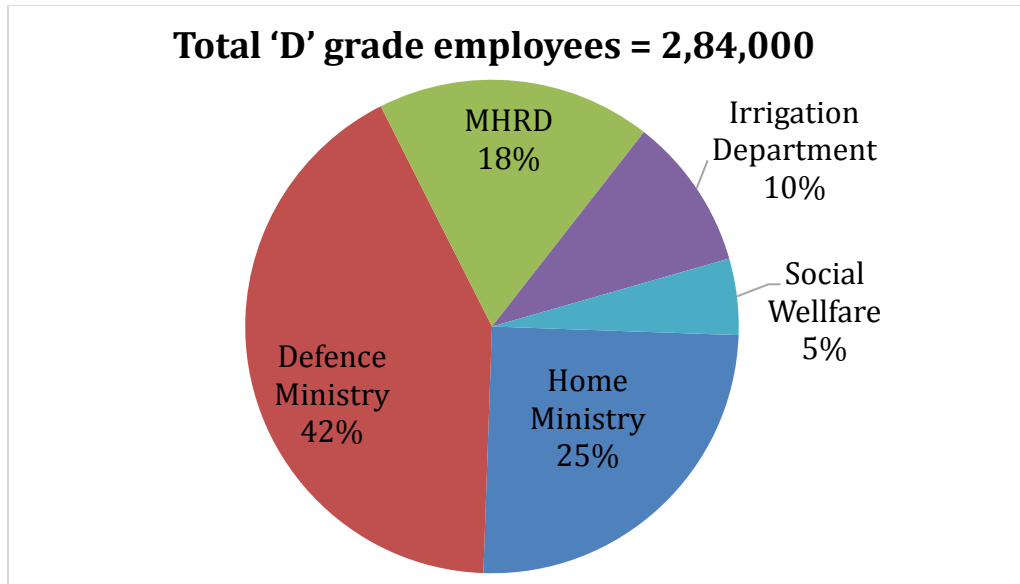
Q139. In how many different ways can the letter of the word 'CREATE' be arranged ?

(a) 25

(b) 36

(c) 710

(d) 360

(e) None of these

Q140. If the numerator of a fraction is increased by 250% and the denominator is increased by 150%. The resultant fraction is what percent of original fraction ?

(a) 142%

(b) 135%

(c) 140%

(d) 130%

(e) None of these

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Directions (141-145): The following pie chart and table show the percentage distribution of 'D' grade employee and percentage of employees who have higher education in them respectively in five different departments of central government. Study the graphs carefully and answer the questions that follow:

Total 'D' grade employees = 2,84,000

MHRD 18%
Irrigation Department 10%
Social Wellfare 5%
Defence Ministry 42%
Home Ministry 25%

Department	Percentage of employees who have higher education
Home Ministry	45%
Defense Ministry	15%
MHRD	25%
Irrigation Department	40%
Social Wellfare	24%

Q141. What is the difference between number of employees in Home Ministry and MHRD who do not have higher education?
(a) 701
(b) 710
(c) 712
(d) 720
(e) 705

Q142. What is the ratio of number of employees in Defense Ministry who have higher education to the number of employees in MHRD who do not have higher education?
(a) 5 : 11
(b) 15 : 7
(c) 7 : 15
(d) 11 : 5
(e) 7 : 13

Q143. Find the average number of employees in Home Ministry, MHRD and Social welfare together who have higher education.
(a) 16,660
(b) 14,066
(c) 16,460
(d) 16,046
(e) 15,046

Q144. Number of employees in Home Ministry who do not have higher education is approximately what percent more or less than the number of employees in Defense Ministry who have higher education ?
(a) 118%
(b) 108%
(c) 114%
(d) 120%
(e) 124%

Q145. If 25% employees who have higher education in Defense Ministry, MHRD and Irrigation Department together got promoted, then find the total number of employees who got promoted in these departments together.
(a) 9,055
(b) 9,575
(c) 9,755
(d) 10,508
(e) 10,050

Directions (146-150): What value should come in place of question mark (?) in the following questions?

Q146. $14\frac{1}{11} + 16\frac{3}{11} + 14\frac{4}{121} + 12\frac{3}{11} = ?$
(a) $59\frac{54}{121}$
(b) $39\frac{23}{121}$
(c) $61\frac{82}{99}$
(d) $56\frac{81}{121}$
(e) $57\frac{81}{121}$

Q147. 16.5% of 300 + 70.5% of 1400 – 10% of 480 = ?
(a) 1280.75
(b) 1084.5
(c) 986.25
(d) 1175.5
(e) 988.5

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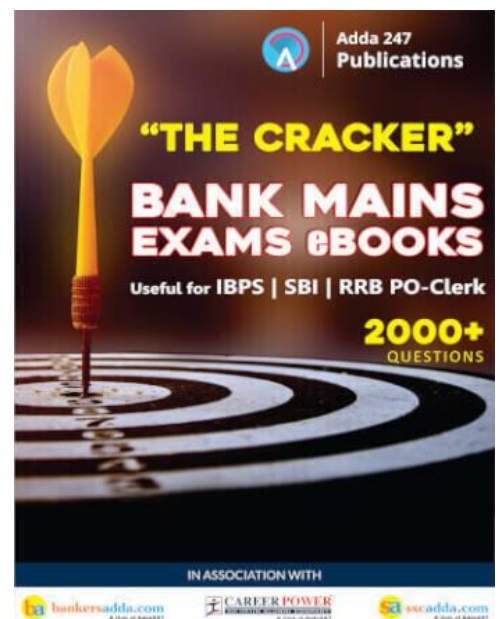
Q148. 9898 + 1073 – 1882 × 3 ÷ 2 =?
(a) 8848
(b) 8989
(c) 8148
(d) 9100
(e) 7963

Q149. $\sqrt[3]{729} \times \sqrt[3]{15625} \times \sqrt{3969} \div 75 = ?$
(a) 221
(b) 189
(c) 325
(d) 195
(e) 175

Q150. $\sqrt{7744} \times \sqrt{?} = 15224$
(a) 29929
(b) 30976
(c) 42102
(d) 39086
(e) 50807

Q151. A jar contains a mixture of two liquids A and B in the ratio 4 : 1. When 10 litres of the mixture is taken out and 10 litres of liquid B is poured into the jar, the ratio becomes 2 : 3. How many litres of liquid A was contained in the jar?
(a) 14 litres
(b) 18 litres
(c) 20 litres
(d) 16 litres
(e) None of these
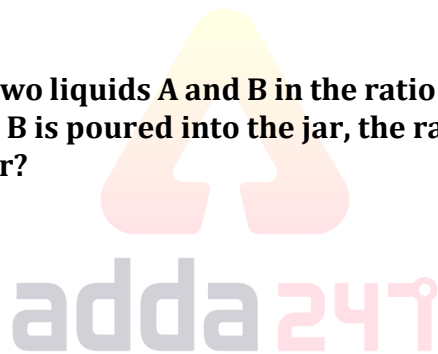
Q152. Several litre of Acid were drawn off a 54-litre vessel full of Acid and an equal amount of water added. Again, the same volume of the mixture was drawn off and replaced by water as a result the vessel contained 24 litres of pure acid. How much of the Acid was drawn off initially ?
(a) 12 liters
(b) 16 liters
(c) 18 liters
(d) 24 litres
(e) None of these

Q153. 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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Directions (154-155): In the following questions, two quantities are given. You have to find these quantities and give answer

(a) if quantity I > quantity II
(b) if quantity I < quantity II
(c) if quantity I ≥ quantity II
(d) if quantity I ≤ quantity II
(e) if quantity I = quantity II or no relation can be established

Q154. Quantity 1: Each sum invested in the two schemes. Two equal sums of money were invested-one at $4\frac{1}{2}\%$ p.a. and the other at 4% p.a. At the end of 7 years, the simple interest received from the former was exceeded to that received from the latter by Rs 31.50.

Quantity 2: Total numbers formed between 2000 and 3000 with the digits 0, 1, 2, 3, 4, 5, 6, 7 (repetition of digits not allowed).

Q155. Quantity 1: Passing marks of examination. Bhavya got 20% of maximum marks in an examination and failed by 30 marks. However, Satish who appeared in the same exam got 50% of maximum marks and got 15 marks more than the passing marks.

Quantity 2: Percentage increment in the final price of mobile compared to initial price. Price of the mobile was first increased by 40%, then decreased by 20% and then again increased by 50%.

Directions (156-160): The following information is about the production of cars by 3 different companies from Monday to Friday in a specific week. Read the information carefully and answer the following question:

The total production by 3 companies on Monday was 540 out of which $33\frac{1}{3}\%$ cars were produced by Tata. The number of cars produced by Renault on Monday is less than the cars produced by Tata on Monday by the same extent as the number of cars produced by Maruti on Monday is more than the cars produced by Tata on Monday. The difference between cars produced by Renault and Maruti on Monday is 40.

150 cars are produced by Tata on Tuesday, which is 100 less than the cars produced by the same company on Wednesday. A total of 910 cars were produced by Tata from Monday to Friday. The ratio between cars produced by Tata on Thursday to cars produced by the same company on Friday is 5: 6.

220 cars were produced by Renault on Tuesday, which is 80 less than the cars produced by Maruti on Wednesday. A total of 570 cars were produced on Tuesday, which is 76% of the total cars produced on Wednesday. The number of cars produced by Maruti on Thursday is $66\frac{2}{3}\%$ more than cars produced by Tata on the same day. Total 580 cars were produced on Thursday. The number of cars produced by Maruti on Friday is same as that on Monday. 140 cars were produced by Renault on Friday.

Q156. Find the ratio between total cars produced on Monday to that on Wednesday.
(a) 18 : 29
(b) 18 : 25
(c) 18 : 31
(d) 3 : 5
(e) None of these

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Q157. Find the total number of cars produced by Renault from Monday to Friday.
(a) 900
(b) 980
(c) 950
(d) 960
(e) 1050

**Q158. Find the average number of cars produced per day by Maruti from Monday to Friday.**
(a) 250
(b) 220
(c) 230
(d) 240
(e) 280

Q159. On which pair of days out of the following, the number of cars produced by Tata is the same?
(a) Tuesday and Wednesday
(b) Wednesday and Thursday
(c) Tuesday and Thursday
(d) Monday and Wednesday
(e) None of these

Q160. On which day the total number of cars produced was the maximum ?
(a) Monday
(b) Wednesday
(c) Tuesday
(d) Thursday
(e) Friday
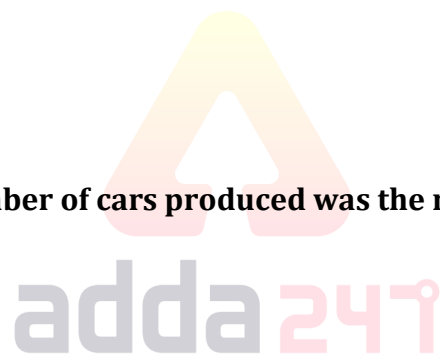
Directions (161-165): In each of these questions, two equations numbered I and II are given. You have to solve both the equation and give answer
(a) if x < y
(b) if x ≤ y
(c) if x > y
(d) if x ≥ y
(e) if x = y or the relationship cannot be established

Q161. I. $x^2 + 12x + 36 = 0$
II. $y^2 = 16$

Q162. I. $9x^2 + 3x - 2 = 0$
II. $8y^2 + 6y + 1 = 0$

Q163. I. $2x^2 - 25x + 77 = 0$
II. $2y^2 - 21y + 55 = 0$

Q164. I. $2x^2 + 9x + 7 = 0$
II. $2y^2 + 9y + 10 = 0$

Q165. I. $9x^2 - 33x + 28 = 0$
II. $6y^2 - 25y + 25 = 0$

Direction (166-170): The following bar- graph shows the total number of students in five different coaching institutes

Table shows the ratio of boys to girls in each institute.
Study the graph carefully to answer the following questions.
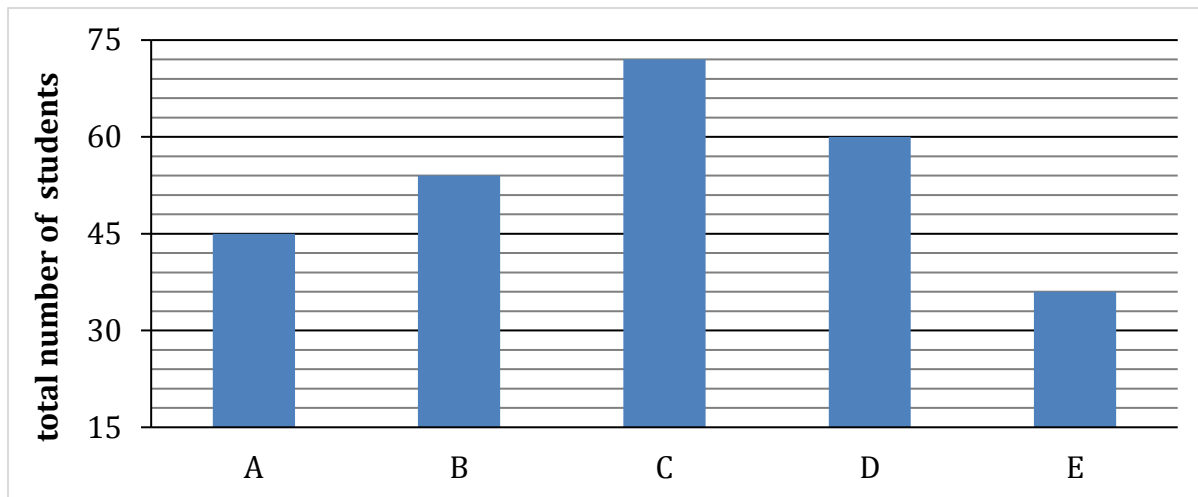
| Institutes | Ratio of boys to girls |
	Boys : Girls
A	4 : 5
B	2 : 1
C	5 : 3
D	3 : 2
E	5 : 7

Q166. Girls in institute A and C together is what percent of the boys in institute B and D together?
(a) 44.42%
(b) 72.22%
(c) 54.36%
(d) 78.18%
(e) 36.24%

Q167. Boys in institute E and A together are how much more or less than the total girls in institute D and C together?

(a) 32

(b) 12

(c) 16

(d) 21

(e) 24

Q168. If one third of the boys in institute C leaves and joins institute D. Then find the ratio of remaining students in institute C to total students in institute D?

(a) None of these

(b) 13 : 19

(c) 19 : 23

(d) 17 : 25

(e) 19 : 25

Q169. If in another institute Z total boys is 20% more than number of boys in the institute A and total students in institute Z to institute C is in ratio of 7:8. Then girls in institute Z are what percent of the total students in same institute?

(a) $41\frac{19}{21}\%$

(b) $34\frac{13}{17}\%$

(c) $61\frac{19}{21}\%$

(d) $51\frac{19}{21}\%$

(e) $47\frac{17}{21}\%$
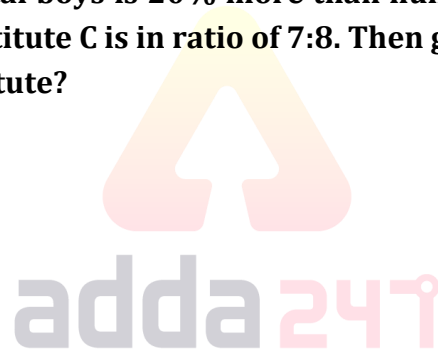
Q170. What is the average number of girls in institute B, C and D?

(a) 23

(b) 21

(c) 18

(d) 27

(e) 15

Q171. How many 5-digit numbers can be formed which contain only one times the digit '3'.

(a) 25,842

(b) 29,889

(c) 26,729

(d) 26,889

(e) 29,349

Q172. Two cards are drawn from a well shuffled pack of cards. If both card are spade, then a dice is thrown and if 2 diamond cards are drawn, then a coin is tossed. Otherwise operation is stopped. In how many ways we can get a tail.

(a) 78
(b) 52
(d) 156
(d) 65
(e) 102

Q173. How many 3 digit number can be formed by 0, 3, 2, 5, 7, 4, 9. Which is divisible by 5 and none of digit is repeated?

(a) 55
(b) 58
(c) 68
(d) 54
(e) 52

Q174. There are 12 points in a plane out of which 8 are collinear. Find the number of triangles formed from the points?

(a) 184
(b) None of these
(c) 154
(d) 164
(e) 168

Q175. Find total no. of arrangements which can be formed using letters of word 'MARVELOUS' so that no vowels come together?

(a) $5! \times 2! \times 15$
(b) $5! \times 3! \times 15$
(c) 125
(d) $4! \times 5! \times 15$
(e) $\frac{5!}{4!} \times 15$

Directions (176-180): What will come at the place of question mark in the following questions? (You are not expected to find exact value)

Q176. 34.998% of 3499.999 + 24.92% of 2600.01 – 1259.98 = ?

(a) 615
(b) 635
(c) 725
(d) 680
(e) 585

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Q177. $2395.99 + 259.99 \times 4.98 - 449.988 - ? = 589.98$
(a) 2428
(b) 2516
(c) 2860
(d) 2740
(e) 2656

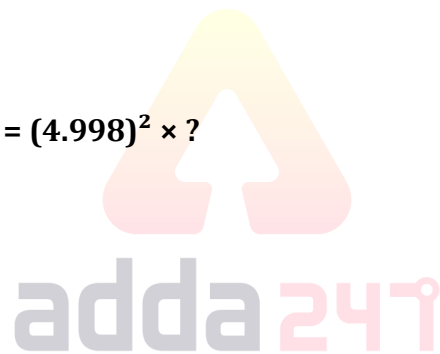**Q178.** 54.95% of $1999.99 + ?\%$ of $5000.001 = 1824.999$
(a) 10
(b) 20
(c) 22.5
(d) 14.5
(e) 26

Q179. $(14.9 \times 19.9) + (4.989)^2 \times 13.010 = (?)^2$
(a) 25
(b) 35
(c) 15
(d) 27
(e) 37

Q180. $2524.001 \div \sqrt{15.9} - 331.01 = (4.998)^2 \times ?$
(a) 15
(b) 16
(c) 18
(d) 12
(e) 21

Directions (181-185): Two equations I and II are given below in each question. You have to solve these equations and give answer
(a) if x<y
(b) if x>y
(c) if x≤y
(d) if x≥y
(e) if x=y or no relation can be established

Q181. I. $\sqrt{x + 18} = \sqrt{144} - \sqrt{49}$
II. $y^2 + 409 = 473$

Q182. I. $y^2 - x^2 = 32$
II. $y - x = 2$

Q183. I. $x^2 - 5x - 14 = 0$
II. $y^2 + 7y + 10 = 0$

Q184. I. $8x^2 + 78x + 169 = 0$
II. $20y^2 - 117y + 169 = 0$

Q185. I. $5x^2 + 2x - 3 = 0$
II. $2y^2 + 7y + 6 = 0$

Directions (186-187): Compare the value (only magnitude) of 2 quantities given in the question and give answer

Q186. Quantity I: 'x': X, Y and Z can finish a work alone in 12, 18 and 9 days respectively. X started the work and Y and Z together assisted him on every 3rd day. 'x' is total days in which work is completed.
Quantity II: 'y': A, B and C can finish a work alone in 20, 12 and 15 days respectively. All three starts working together, after 2 days B left the work, after 4 more days C left and remaining work is completed by A alone. A worked for 'y' days.
(a) Quantity I > Quantity II
(b) Quantity I < Quantity II
(c) Quantity I ≥ Quantity II
(d) Quantity I ≤ Quantity II
(e) Quantity I = Quantity II or No relation

Q187. There are 5 Red pens, 4 Black pens & 3Green pens in a bag. Four pens are chosen at random
Quantity I: The probability of being 2 Red pens and 2 Black pens.
Quantity II: The probability of being 2 Red pens, 1 Green pen & 1 blacks pen.
(a) Quantity I > Quantity II
(b) Quantity I ≥ Quantity II
(c) Quantity II > Quantity I
(d) Quantity II ≥ Quantity I
(e) Quantity I = Quantity II or Relation cannot be established

Q188. Manoj incurred a loss of 40 percent on selling an article for Rs. 5,700. At what price should he have sold the item to have profit of 30%?
(a) Rs. 12,650
(b) Rs. 9,500
(c) Rs. 11,850
(d) Rs. 11,450
(e) Rs. 12,350

Q189. The difference between Circumference of circle A and diameter is 90 cm. If Radius of Circle B is 7 cm less than circle A then find area of Circle B?
(a) 556 cm^2
(b) 616 cm^2
(c) 588 cm^2
(d) 532 cm^2
(e) 630 cm^2

Q190. Rita and Gita enter into a partnership with their initial investments of Rs. 24000 and Rs. 40,000 respectively. They decided to distribute 40% of profit equally between them and rest according to their investment ratio. If total profit after a year was Rs. 16,800 then find profit of Rita.
(a) Rs. 7,140
(b) Rs. 8,140
(c) Rs. 6,140
(d) Rs. 7,410
(e) Rs. 8,110

Direction (191-195): What should come in the place of question mark (?) in the following number series problems?

Q191. 325, 314, 288, 247, 191, ?
(a) 126
(b) 116
(c) 130
(d) 120
(e) 110

Q192. 620, 632, 608, 644, 596, ?
(a) 536
(b) 556
(c) 656
(d) 646
(e) 436

Q193. 120, 320, ?, 2070, 5195, 13007.5
(a) 800
(b) 920
(c) 850
(d) 900
(e) 820

Q194. 6, 4, 8, 23, ?, 385.25
(a) 84.5
(b) 73
(c) 78.5
(d) 82
(e) 72.5

Q195. 5, 11, 32, 108, 444, ?
(a) 1780
(b) 2230
(c) 1784
(d) 2225
(e) 2245

Q196. 24 workers working 13 hours daily make a wall of dimensions 224 m × 16 m × 52 m in 32 days. In how many days will 36 workers working 18 hours daily make a wall of dimensions 432 m × 21 m × 64 m ?
(a) 58 days
(b) 42 days
(c) 48 days
(d) 60 days
(e) 62 days

Q197. A bag contains 25 paise, 50 paise and Rs 1 coins. There are 220 coins in all and the total amount in the bag is Rs 160. If there are thrice as many 1 Rs coins as there are 25 paise coins, then what is the number of 50paise coins?
(a) 60
(b) 40
(c) 120
(d) 80
(e) 70

Q198. If 6 years are subtracted from the present age of Shyam and the resultant is divided by 18, then the present age of his grandson Anup is obtained. If Anup is 2 years younger to Mahesh whose age is 5 years, then what is the age of Shyam?
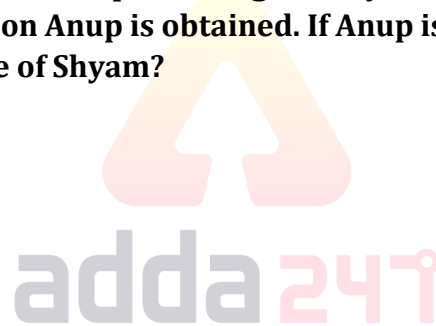(a) 48 years
(b) 60 years
(c) 84 years
(d) 96 years
(e) None of these

Q199. Three times the present age of a father is equal to eight times the present age of his son. Eight years hence the father will be twice as old as his son at that time. What are their present ages?
(a) 35, 15
(b) 32, 12
(c) 40, 15
(d) 27, 8
(e) None of these

Q200. The ratio between speeds of A and B is 2:3 and therefore A takes 10 minutes more than B to reach a destination. If A had travelled at double the speed, he would have covered the distance in
(a) 30 minutes
(b) 25 minutes
(c) 15 minutes
(d) 20 minutes
(e) None of these

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Q201. The difference between present ages of Rohan and Rahul is 8 years. After 5 years, Rahul's age is twice of Rohan's age. What will be Rohan's after 20 years?
(a) 28 years
(b) 27 years
(c) 25 years
(d) 23 years
(e) None of these

Directions (202-205): Study the following table carefully to answer the questions that follow.

The table given below provides the incomplete data related to monthly earning & expenditure of five friends. Find the missing value if required to answer the questions.

Friends	Total Income (In Rs)	Ratio of Savings & Expenditure S : E	Expenditure (in Rs) on		
			Rent	Food	Others
Neha	–	5 : 6	20%	15%	7800
Seema	28000	5 : 9	–	16%	62%
Reena	22000	– : –	2000	2200	58%
Shaalu	26000	– : 6	15%	25%	7200
Aarti	–	8 : 9	4000	4000	10000

Q202. Find the annual income of Neha.
(a) Rs 26,400
(b) Rs 2,65,000
(c) Rs 26,500
(d) Rs 2,64,000
(e) None of these

Q203. Find the difference in the monthly savings of Shaalu and Reena.
(a) Rs 1200
(b) Rs 2200
(c) Rs 2000
(d) Rs 1800
(e) Rs. 2600

Q204. Expenditure made by Seema on rent is what percent of expenditure made by Shaalu on food?
(a) 32%
(b) 132%
(c) 88%
(d) 120%
(e) 142%

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Q205. The savings of Seema is what percent more or less than that of Aarti?
(a) 32%
(b) 36%
(c) 38%
(d) 40%
(e) 37.5%

Directions (206-210): find the wrong number in the following series.

Q206. 68, 130, 222, 336, 520, 720
(a) 68
(b) 130
(c) 222
(d) 336
(e) 720

Q207. 56, 89, 136.5, 212.75, 324.125, 491.1875
(a) 89
(b) 491.1875
(c) 56
(d) 136.5
(e) 212.75

Q208. 87, 116, 174, 261, 397, 522
(a) 397
(b) 174
(c) 261
(d) 87
(e) 522

Q209. 670, 736, 792, 850, 890, 972
(a) 736
(b) 792
(c) 890
(d) 670
(e) 850

Q210. 273, 249, 373, 337, 553, 504
(a) 249
(b) 373
(c) 273
(d) 337
(e) 504

Directions (211-215): In following questions three statements either A, B and C or I, II and III are given. Question will be solved using these statements. Solve the questions and give answer according to use of statements.

Q211. Arun borrowed a sum which is compounded annually, what is the amount he returned in 2 years?
I. Rate of interest is 6% per annum
II. Simple interest incurred on the sum in one year is Rs. 600
III. The borrowed sum is 10 times the amount earned as simple interest in two years.
(a) Only statement I and III are sufficient
(b) Only statement II is sufficient
(c) Only statement III is sufficient
(d) Any two are sufficient
(e) Statement II and either I or III are sufficient

Q212. What is the area of circle ?
Statement A: The radius of circle is three fifth of the slant height of a cone.
Statement B: The volume of cone is 432 cm^3.
Statement C: the ratio between radius of cone and side of a square is 3 : 4.
(a) A is sufficient
(b) Any two of them are sufficient
(c) B and C together are sufficient
(d) Even using all the statement, answer cannot be found.
(e) None of these

Q213. What is the cost price of scooter ?
Statement A: The marked price of scooter is equal to selling price of a bike.
Statement B: The profit earned on selling the scooter is 15%.
Statement C: The selling prices of scooter and bike are in the ratio 3 : 5.
(a) B and C together are required.
(b) A and B together are sufficient
(c) A and C together are sufficient.
(d) Even using all statements, answer cannot be found.
(e) All the three statements are required

Q214. What will be the average of five odd numbers?
A. The largest no. is greater than the smallest by 12.
B. The sum of the largest and smallest nos. is equal to twice the middle one.
C. The difference of the first two numbers is 16.
(a) Only A and C together
(b) Only B and C together
(c) Any two of them
(d) Question can't be answered even after using all the information
(e) All statements are required

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Q215. What is speed of boat in still water?
I. Speed of stream is two-third of speed of boat in still water
II. The boat covers 20 km in 2 hours in downstream
III. The boat covers 10 km in 5 hours in upstream.
(a) only statement II is sufficient
(b) Any two are sufficient
(c) I and II or III are sufficient
(d) Only statement III is sufficient
(e) None of these

Directions (216-220): Study the graphs carefully to answer the questions that follow:

The given bar graph shows the number of children in six different schools and line graph shows the percentage of girls out of total children for each of these schools.
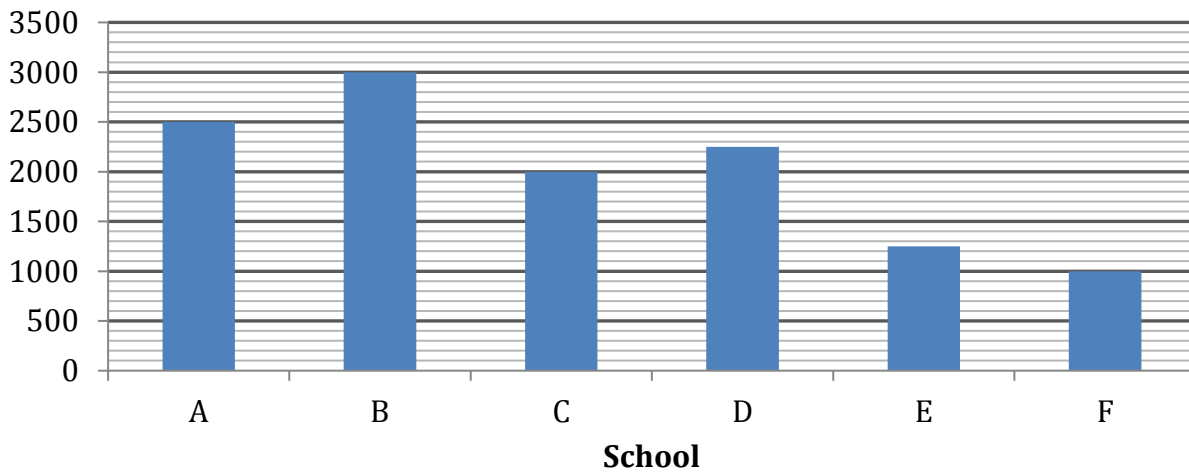

Number of Children

Percentage of Girls

48

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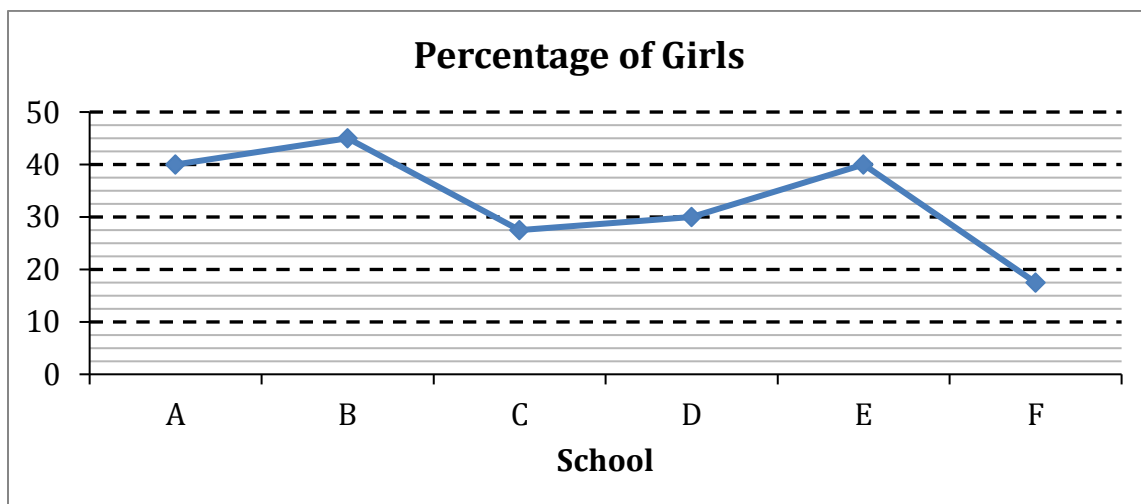
Q216. What is the total percentage of boys out of total children in schools C and F together ? (rounded off to two digits after decimal)

(a) 78.55%

(b) 72.45%

(c) 76.28%

(d) 75.83%

(e) None of these
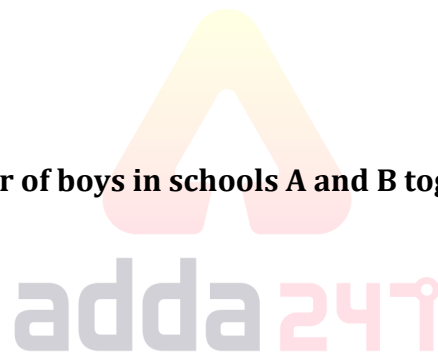
Q217. What is the total number of boys in School E ?

(a) 500

(b) 600

(c) 750

(d) 850

(e) None of these

Q218. The total number of students in school C is approximately what per cent of the total number of students in school D ?

(a) 89%

(b) 75%

(c) 78%

(d) 82%

(e) 94%

Q219. What is the average number of boys in schools A and B together ?

(a) 1425

(b) 1575

(c) 1450

(d) 1625

(e) 1265

Q220. What is the ratio of the number of girls in school A to the number of girls in school B?

(a) 27 : 20

(b) 17 : 21

(c) 20 : 27

(d) 21 : 17

(e) None of these

Directions (221-225): What should come in place of the question mark (?) in the following questions?

Q221. 7960 +2956 – 8050 + 4028 = ?

(a) 6984

(b) 6884

(c) 6894

(d) 6954

(e) 7894

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Q222. 25 × 3.25 + 50.4 ÷ 24 = ?
(a) 84.50
(b) 83.35
(c) 83.53
(d) 82.45
(e) 92.84

Q223. 350% of ? ÷ 50 + 248 = 591
(a) 4900
(b) 4890
(c) 4850
(d) 4950
(e) 4750

Q224. 1/2 of 3842 + 15% of ? =2449
(a) 3520
(b) 3250
(c) 3350
(d) 3540
(e) 2850

Q225. (833.25 – 384.45) ÷ 24 = ?
(a) 1.87
(b) 20.1
(c) 2.01
(d) 18.7
(e) 16.7