

Q1. Jenny has two cycles and one rickshaw. The rickshaw is worth Rs. 96. If she sells the rickshaw along with the first cycle, she has an amount double that of the value of the second cycle. But if she decides to sell the rickshaw along with the second cycle, the amount received would be less than the value of first cycle by Rs. 306. What is the value of first cycle?

- (a) Rs. 900
- (b) Rs. 600
- (c) Rs. 498
- (d) Rs. 520
- (e) Rs. 620

Q2. The RBI lends a certain amount to the SBI on simple interest for two years at 20%. The SBI gives this entire amount to Bharti Telecom on compound interest for two years at the same rate annually. Find the percentage earning of the SBI at the end of two years on the entire amount.

- (a) 4%
- (b) $3\frac{1}{7}\%$
- (c) $3\frac{2}{7}\%$
- (d) $3\frac{6}{7}\%$
- (e) None of these

Q3. A mother divided an amount of Rs. 61,000 between her two daughters aged 18 years and 16 years respectively and deposited their shares in a bond. If the interest rate is 20% compounded annually and if each received the same amount as the other when they attained the age of 20 years, their shares are

- (a) Rs. 35,600 and Rs. 25,400
- (b) Rs. 30500 each
- (c) Rs. 24,000 and Rs. 37000
- (d) Rs. 36,000 and Rs 25,000
- (e) None of these

Q4. There are three Taps A, B and C in a tank. They can fill the tank in 10 hrs, 20 hrs and 25 hrs respectively. At first, all of them are opened simultaneously. Then after 2 hours, tap C is closed and A and B are kept running. After the 4th hour, tap B is also closed. The remaining work is done by Tap A alone. Find the percentage of the work done by Tap A alone.

- (a) 32%
- (b) 52%
- (c) 75%
- (d) 72%
- (e) 84%



Q5. A boat sails downstream from point A to point B, which is 10 km away from A, and then returns to A. If the actual speed of the boat (in still water) is 3 km/h, the trip from A to B takes 8 hours less than that from B to A. What must the actual speed of the boat for the trip from A to B to take exactly 100 minutes?

- (a) 1 km/h
- (b) 2 km/h
- (c) 3 km/h
- (d) 4 km/h
- (e) 6 km/h

Directions (6-10): What approximate value should come in place of question mark (?) in following questions?

Q6. $64.9\% \text{ of } 380 - ? \div \left(\frac{2}{3}\right) = \sqrt[3]{9261} + 79.8$

- (a) 125
- (b) 109
- (c) 97
- (d) 103
- (e) 132

Q7. $(6.98)^2 + \sqrt[3]{1728} \div 24.01 + \sqrt{?} \div 11.9 = 50$

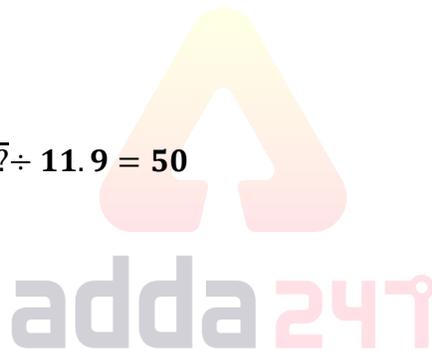
- (a) 36
- (b) 25
- (c) 16
- (d) 49
- (e) 27

Q8. $1.1 + (0.5)^2 + (12.5)^2 = ?^2 - 11.9$

- (a) 12
- (b) 13
- (c) 15
- (d) 9
- (e) 8

Q9. $\left(\frac{100}{3}\right) + 66\frac{2}{3} + 900.33 = \left(\frac{?}{121.11}\right)^{\frac{1}{2}} + 988.9$

- (a) 8000
- (b) 400
- (c) 5129
- (d) 14641
- (e) 16461



Q10. 89.93% of $902 + (14.21)^2 + ? \div 4 = 3 \times ? + (4.1)^2$

- (a) 360
- (b) 372
- (c) 291
- (d) 312
- (e) 289

Directions (11-15): Study the following information carefully and answer the question given below it.

Out of the 15,000 candidates eligible for an Officer's post in a Public Sector Bank, 450 candidates have prior experience of working in Public Sector Banks in rural areas only. 25% of the total number of candidates have prior experience of working in Public Sector Banks in urban areas only. 12% of the total number of candidates have prior experience of working in Private Sector Banks in urban areas only. 2% of the total number of candidates have prior Experience of working in Private Sector banks in rural areas only. 3,600 candidates have worked in both Public and Private Sector Banks in urban areas only. 600 candidates have worked in both Public and private Sector Banks in rural areas only. The remaining candidates have no prior experience of working in the Banking industry.

Q.11. Total no of Candidates having prior experience of working in rural areas is what percent of total no of candidates having experience of working in urban areas? (round off to 2 decimal places)

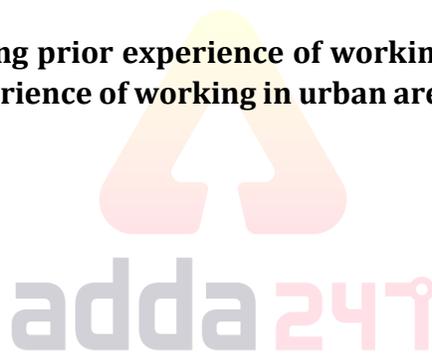
- (a) 13.75%
- (b) 13.25%
- (c) 14.25%
- (d) 15.75%
- (e) None of these

Q12. What percent of total number of candidates have prior experience of working in Public Sector Banks?

- (a) 83%
- (b) 56%
- (c) 67%
- (d) 71%
- (e) None of these

Q13. What is ratio of the candidates who have a prior experience of working in Public Sector Banks in rural areas only to the candidates who have a prior experience of working in Private Sector Banks in rural areas only?

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





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Q14. Candidates who have worked in Private Sector Banks in urban areas is what percent less than the number of candidates who have worked in public sector banks in urban areas?

- (a) 28.53%
- (b) 28.73%
- (c) 24.43%
- (d) 26.73%
- (e) 26.53%

Q15. If 37% of inexperienced candidates are post graduate, then find the ratio between total number of experienced candidates to the number of inexperienced candidates who are not postgraduate?

- (a) 27:100
- (b) 100:27
- (c) 100:63
- (d) 63:100
- (e) None of these

Q16. John borrowed some money at the rate of 4 p.c.p.a for the first three years, at the rate of 8 p.c.p.a for the next two years and at the rate of 9 p.c.p.a for the period beyond 5 years. If he pays a total simple interest of Rs 19550 at the end of 7 years, how much money did he borrow?

- (a) Rs 39500
- (b) Rs 42500
- (c) Rs 41900
- (d) Rs 43000
- (e) Rs 45500

Q17. A sum of Rs 18,750 is left in a will by a father to be divided between two sons, whose present age is 12 and 14 years respectively, such that when they attain maturity at 18, the amount (Principal + interest) received by each at 5% S.I. will be the same. Find the sum allotted at present to each son.

- (a) Rs 9500, Rs 9250
- (b) Rs 8000, Rs 1750
- (c) Rs 9000, Rs 9750
- (d) Rs 8500, Rs 10250
- (e) None of these

Q18. When the price of gram was increased by 32%, a family reduced its consumption in such a way that the expenditure on gram was only 10% more than before. If 30 kg per month were consumed before, find the new monthly consumption of family?

- (a) 42 kg
- (b) 35 kg
- (c) 25 kg
- (d) 16 kg
- (e) 27.5kg

Q19. The simple interest accrued on an amount of Rs. 22,500 at the end of four years is Rs. 10,800. What would be the compound interest accrued on the same amount at the same rate of interest at the end of two years?

- (a) Rs. 16,908
- (b) Rs. 5,724
- (c) Rs. 28,224
- (d) Rs. 8,586
- (e) Rs. 5424

Q20. If 6 years are subtracted from the present age of Shyam and remaining 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

Directions (21-25): What should come in place of question mark (?) in the following number series?

Q21. 2, 5, 23, 143, 1151, ?

- (a) 11520
- (b) 11519
- (c) 11517
- (d) 9215
- (e) 13823

Q22. 8, 9, 20, 63, ?, 1285, 7716

- (a) 384
- (b) 254
- (c) 256
- (d) 192
- (e) 320

Q23. 15, 34, 13, 30, 11, ?

- (a) 26
- (b) 15
- (c) 42
- (d) 29
- (e) 28

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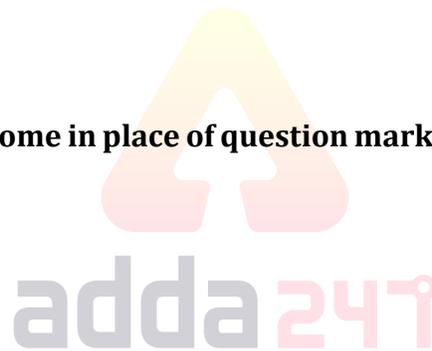
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Q24. 6, 5, 7, 12.5, 27, ?

- (a) 83
- (b) 69.5
- (c) 56
- (d) 70.5
- (e) 96.5

Q25. 64, 77, 66, 73, 68, ?

- (a) 75
- (b) 72
- (c) 67
- (d) 69
- (e) 66

Directions (26–30) Study the table and answer the given questions.

Data related to candidates appeared and qualified from UP in PSB (Public Sector Banks) exam during 5 years.

Years	No. of appeared candidates	% of appeared candidates who qualified	Respective ratio of number of qualified male & female candidates
2012	70000	--	3 : 2
2013	--	--	5 : 3
2014	48000	60%	--
2015	--	42%	9 : 5
2016	90000	64%	--

Q26. In 2016, if the number of female qualified candidates was 17600, what was the respective ratio of number of male qualified candidates and number of female qualified candidates?

- (a) 25 : 16
- (b) 5 : 4
- (c) 25 : 11
- (d) 21 : 16
- (e) 4 : 5

Q27. If the number of appeared candidates in 2017 were 40% more than that in 2012 and If 25% of the appeared candidates qualified in 2017 then what was the number of qualified candidates in 2017?

- (a) 24000
- (b) 22500
- (c) 25500
- (d) 24500
- (e) 26500

Q28. In 2013, the respective ratio of number of appeared candidates to the qualified candidates was 5:4. Number of female qualified candidates constitutes what per cent of number of appeared candidates in the same year?

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

Q29. In 2015, if the difference between number of male qualified candidates and female qualified candidates was 7200, what was the number of appeared candidates in 2015?

- (a) 80000
- (b) 90000
- (c) 85000
- (d) 60000
- (e) None of these

Q30. If the average number of qualified candidates in 2012 and 2014 was 24900, what percent of appeared candidates qualified in the competitive exam in 2012?

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

Q31. A man invested Rs. 9600 in two equal parts on SI for T years and (T + 2) years at the rates of 12.5% p.a and 16% p.a respectively. If the man got a total interest of Rs. 4272, then find the value of T.

- (a) 1 years
- (b) 3 years
- (c) 1.5 years
- (d) 2.5 years
- (e) 2 years

Q32. Veer invested Rs. P at the rate of 15% p.a and Rs. (P + 800) at the rate of 8.5% p.a. If veer gets a total simple Interest of Rs. 4836 after two years, then find the value of (P + 800).

- (a) 9600 Rs.
- (b) 10400 Rs.
- (c) 10800 Rs.
- (d) 11800 Rs.
- (e) 12600 Rs.



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Q33. A man invested Rs. 8500 on SI at the rate of R% per annum. If ratio between rate of interest and time period is 4 : 1 and total interest received is Rs. 1360 then find the time for which the man invested his sum?

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

Q34. Mr. Adarsh invested certain principal sum on SI and got 34% more amount after four years. Find the rate for which Adarsh invested his sum?

- (a) 12.5 %
- (b) 8.5 %
- (c) 10 %
- (d) 8 %
- (e) 12%

Q35. A man invested his total saving into three different banks namely SBI, UBI and BOB in the ratio of 2 : 1 : 2 for two years. Rate of simple interest offered by SBI is 20%, UBI is 16% and BOB is 12%. If the simple interest received from SBI is Rs. 672 more than interest received from BOB. Find total interest received by the man from UBI after two years.

- (a) 576 Rs.
- (b) 484 Rs.
- (c) 672 Rs.
- (d) 556 Rs.
- (e) 772Rs.

Directions (36-40)- Given below is the table which shows the number of registered voters in 5 villages and ratio of male to female in those registered voters in the year 2016

Note-Some values are missing in the table, you have to calculate them if required to answer the question.

Village	Registered voters	Ratio of male to female
A	16000	-
B	18000	11: 7
C	-	3: 2
D	12000	-
E	-	7: 6

Q36. What is the sum of total registered female voters from village A and B together if registered male voters in village A are $\frac{200}{11}$ % less than registered male voters from village B?

- (a) 7000
- (b) 14000
- (c) 21000
- (d) 17500
- (e) 13500

Q37. If average of all registered voters from all villages is 18400 and ratio of all registered voters from village C to all registered voters from Village E is 10 : 13 then find the sum of registered male voters from village B and E together.

- (a) 24000
- (b) 28000
- (c) 18000
- (d) 20000
- (e) 25000

Q38. Registered females from village A and B are equal. If in an election, 20% votes polled by all registered voters of village A are declared invalid in which ratio of male invalid votes to female invalid votes is 5: 3. Then, valid votes casted by females of village A are what percent of total registered female voters of village B.

- (a) $82\frac{6}{7}\%$
- (b) $80\frac{1}{7}\%$
- (c) $91\frac{1}{7}\%$
- (d) $84\frac{2}{7}\%$
- (e) $85\frac{3}{7}\%$

Q39. If total registered voters from village C are $\frac{100}{9}\%$ more than total registered voters from village B then, find the ratio of total registered voters from village C to total registered voters from village D.

- (a) 4 : 5
- (b) 3 : 5
- (c) 5 : 4
- (d) 5 : 3
- (e) 5 : 6

Q40. If next year, registered voters from village D, are increased by $\frac{100}{3}\%$ while registered male voters are increased by $\frac{100}{7}\%$ and total registered female voters in 2016 in village B are 12.5% less than registered female voters of village D in year 2017 then, find registered male voters of village D in the year 2016.

- (a) 6000
- (b) 7000
- (c) 14000
- (d) 17500
- (e) 13500



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Directions (41-45): Solve the following equations and mark the correct option given below.

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

Q41. I. $x^2 - 27x + 180 = 0$

II. $y^2 - 7y = 60$

Q42. I. $x^2 - 59x + 868 = 0$

II. $y^2 - 53y + 702 = 0$

Q43. I. $100x^2 - 120x + 32 = 0$

II. $10y^2 - 17y + 6 = 0$

Q44. I. $15x^2 - 22x + 8 = 0$

II. $12y^2 - 5y - 2 = 0$

Q45. I. $x^2 + 8x + 15 = 0$

II. $y^2 - 2y - 8 = 0$

Q46. A man gave 50% of his savings of Rs. 84,100 to his wife and divided the remaining sum among his two sons A and B of 15 and 13 years of age respectively. He divided it in such a way that each of his sons, when they attain the age of 18 years, would receive the same amount at 5% compound interest per annum. The share of B was

- (a) Rs. 20,000
- (b) Rs. 20,050
- (c) Rs. 22,000
- (d) Rs. 22,050
- (e) None of these

Q47. Average age of A, B and C is 84 years. When D joins them, the average age becomes 80 years. A new person, E, whose age is 4 years more than D, replaces A and the average of B, C, D and E becomes 78 years. What is the age of A ?

- (a) 50 years
- (b) 60 years
- (c) 70 years
- (d) 80 years
- (e) None of these

Q48. The compound interest on a certain sum of money for 2 years at 5% per annum is Rs. 410. The simple interest on the same sum at the same rate and for the same time is

- (a) Rs. 400
- (b) Rs. 300
- (c) Rs. 350
- (d) Rs. 405
- (e) None of these

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Q49. The population of vultures in a particular locality is decreases by a certain rate. If the current population of vultures be 29160 and the ratio of decrease in population for second year and 3rd year be 10 : 9. What was the population of vultures 3 years ago?

- (a) 30000
- (b) 35000
- (c) 40000
- (d) 50000
- (e) None of these

Q50. Tap A can fill a water tank in 25 minutes, tap B can fill the same tank in 40 minutes and tap C can empty the tank in 30 minutes. If all the three taps are opened together, in how many minutes will the tank be completely filled up or emptied?

- (a) $3\frac{2}{13}$
- (b) $15\frac{5}{13}$
- (c) $8\frac{2}{13}$
- (d) $31\frac{11}{19}$
- (e) None of these

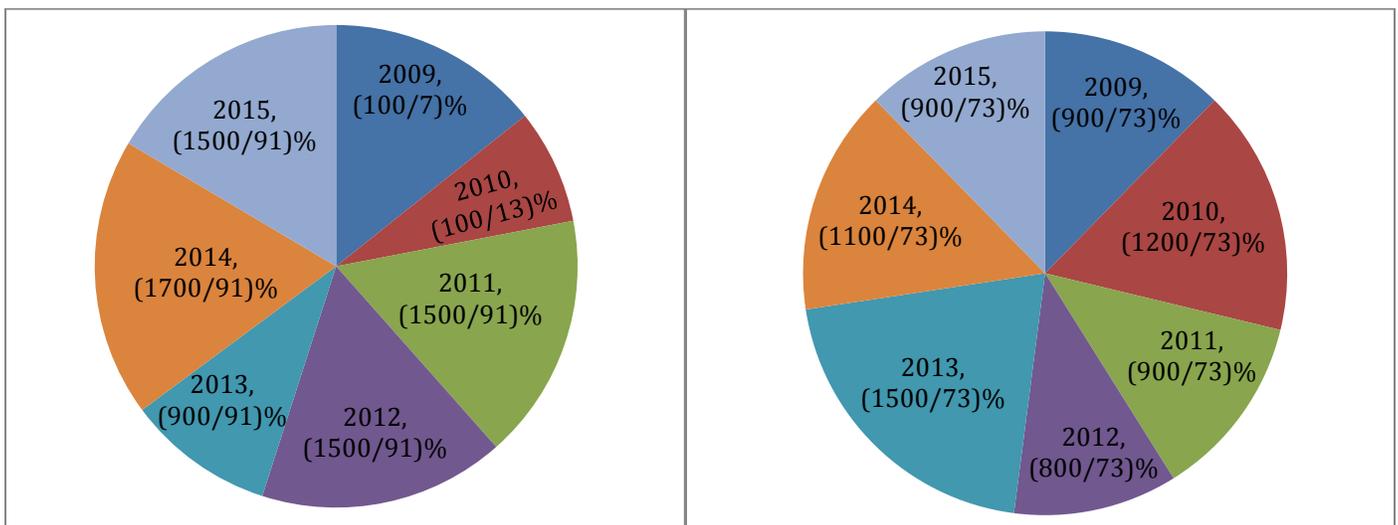
Directions (51-55): Given below are the two pie charts. First Pie chart shows the percentage distribution of a man total income for seven year from year 2009 to 2015

Second pie chart shows the percentage distribution of his total expenditure from year 2009 to 2015

Note → Income = Expenditure + Profit

Ratio between total income and total expenditure for seven year is 91 : 73

Difference between income and expenditure in 2011 is 300.



Q51. Profit earned by man in year 2011 and 2012 together is what percent less or more than the profit earned by man in year 2014 and 2015 together.

- (a) $\frac{25}{3}\%$
- (b) $\frac{100}{3}\%$
- (c) $16\frac{2}{3}\%$
- (d) $\frac{100}{14}\%$
- (e) None of these

Q52. What is the ratio of maximum profit for any year to the maximum loss for any year, if income = expenditure - loss?

- (a) 3 : 5
- (b) 04 : 5
- (c) 2 : 1
- (d) 7 : 6
- (e) 6 : 1

Q53. Average of income for year 2011, 2014 and 2015 is what percent more or less than the average of expenditure for years 2010 2013 and 2015?

- (a) 28%
- (b) 29%
- (c) 30.5%
- (d) 31.5%
- (e) 28.5%

Q54. If income in year 2016 is decreased by $33\frac{1}{3}\%$ as compared to previous year and ratio of expenditure for year 2015 and 2016 is 9 : 5 then profit in year 2016 changes by what percent as compared to previous year?

- (a) $21\frac{1}{2}\%$
- (b) $16\frac{2}{3}\%$
- (c) $33\frac{1}{3}\%$
- (d) $8\frac{1}{3}\%$
- (e) None of these

Q55. For some years, expenditure of person is more than the income of the person then sum of difference between expenditure and income for those years is what approximate percent of sum of difference between Income and expenditure for remaining years.

- (a) 28%
- (b) 32%
- (c) 38%
- (d) 26%
- (e) 42%

Direction (56-60): Two equations (I) and (II) are given in each question. On the basis of these equations you have to decide the relation between 'x' and 'y' 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 relation cannot be established.

Q56. I. $99x^2 + 149x + 56 = 0$

II. $156y^2 + 287y + 132 = 0$

Q57. I. $3x^2 - 4x - 32 = 0$

II. $2y^2 - 17y + 36 = 0$

Q58. I. $x^2 - 4x - 60 = 0$

II. $y^2 - 26y + 165 = 0$

Q59. I. $32x^2 - 68x + 35 = 0$

II. $8y^2 - 14y + 5 = 0$

Q60. I. $4/\sqrt{x} + 7/\sqrt{x} = \sqrt{x}$

II. $y^2 - (11^{5/2}/\sqrt{y}) = 0$

Q61. If sum of upstream and downstream speed of a boat is 82 kmph, and the boat travels 105 km. upstream in 3 hr, Find the time taken by boat to cover 126 km downstream.

- (a) 126/47 hr
- (b) 137/47 hr
- (c) 129/47 hr
- (d) 124/47 hr
- (e) 184/47 hr

Q62. The difference between simple interest and compound interest of a certain sum of money at 20% per annum for 2 years is Rs. 48. Then the sum is:

- (a) Rs. 1,000
- (b) Rs. 1,200
- (c) Rs. 1,500
- (d) Rs. 2,000
- (e) Rs. 2,500

Q63. Compound interest of a sum of money for 2 years at 4 per cent per annum is Rs. 2,448. Simple interest of the same sum of money at the same rate of interest for 2 years will be:

- (a) Rs. 2,500
- (b) Rs. 2,400
- (c) Rs. 2,360
- (d) Rs. 2,250
- (e) Rs. 2,450

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Q64. There are two positive integers a and b. What is the probability that a+b is odd?

- (a) $\frac{1}{4}$
- (b) $\frac{1}{3}$
- (c) $\frac{1}{2}$
- (d) $\frac{2}{3}$
- (e) None of these

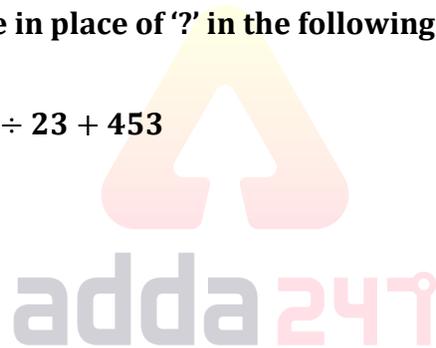
Q65. A shopkeeper sells his goods at a loss of 44% but he uses a false scale which is 30% less than its true weight. Find the loss/gain percent?

- (a) 20% profit
- (b) 20% loss
- (c) 25% profit
- (d) 25% loss
- (e) Neither profit nor loss

Direction (66-70): What will come in place of '?' in the following questions.

Q66. $\frac{5}{11}$ of $297 \times 39 \div 13 + ? = 299 \div 23 + 453$

- (a) 61
- (b) 199
- (c) 107
- (d) 126
- (e) 161



Q67. $15 \times 2^5 + \frac{1}{7}$ of $1770 - 1400 \div 7 = 575$

- (a) 5
- (b) 4
- (c) 8
- (d) 6
- (e) 10

Q68. $(?)^2 + 440 \div 8 \times 3 - 381 = 27 \times (16 + 24)$

- (a) 35
- (b) 32
- (c) 36
- (d) 31
- (e) 42

Q69. $\frac{1}{(6859)^{\frac{1}{3}}}$ of 2679 + 243 × ? = $66\frac{2}{3}\%$ of $\frac{4797}{2}$

- (a) 5
- (b) 6
- (c) 7
- (d) 8
- (e) 12

Q70. 14% of 29200 = ? × 16

- (a) 265.5
- (b) 250.5
- (c) 255.5
- (d) 357.2
- (e) 270.2

Directions (71-75): What will come in place of question mark (?) in the following number series?

Q71. 1, 5, 29, 209, ?, 20789

- (a) 2223
- (b) 1889
- (c) 1771
- (d) 1828
- (e) 2148

Q72. 71, 88, 113, 150, 203, ?

- (a) 412
- (b) 328
- (c) 276
- (d) 282
- (e) 316

Q73. 359, 437, 523, 615, 711, ?

- (a) 809
- (b) 812
- (c) 936
- (d) 984
- (e) 778

Q74. 3, 5, 17, 97, 769, ?

- (a) 9217
- (b) 4609
- (c) 6145
- (d) 7681
- (e) 7679

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Q75. 15.5, 29, 56, 96.5, 150.5, ?

- (a) 238
- (b) 252
- (c) 312
- (d) 328
- (e) 218

Q76. A policeman starts to chase a thief. When the thief goes 10 steps the policeman moves 8 steps and 5 steps of the policeman are equal to 7 steps of the thief. The ratio of the speeds of the policeman and the thief is:

- (a) 25 : 28
- (b) 25 : 26
- (c) 28 : 25
- (d) 56 : 25
- (e) 14:27

Q77. Stanic and Paul take a piece of work for Rs. 28,800. One alone could do it in 36 days, the other in 48 days. With the assistance of an expert, they finish it in 12 days. How much remuneration the expert should get?

- (a) Rs. 10000
- (b) Rs. 18000
- (c) Rs. 16000
- (d) Rs. 12000
- (e) Rs. 15000

Q78. A and B together can complete a job in 8 days. Both B and C, working alone can finish the same job in 12 days, A and B commence work on the job, and work for 4 days, where upon A leaves, B continues for 2 more days, and then he leaves too, C now starts working, and finishes the job. How many days will C require?

- (a) 5 days
- (b) 8 days
- (c) 3 days
- (d) 4 days
- (e) 9 days

Q79. In how many different ways can 4 boys and 3 girls be arranged in a row such that all boys stand together and all the girls stand together?

- (a) 75
- (b) 576
- (c) 288
- (d) 24
- (e) 121

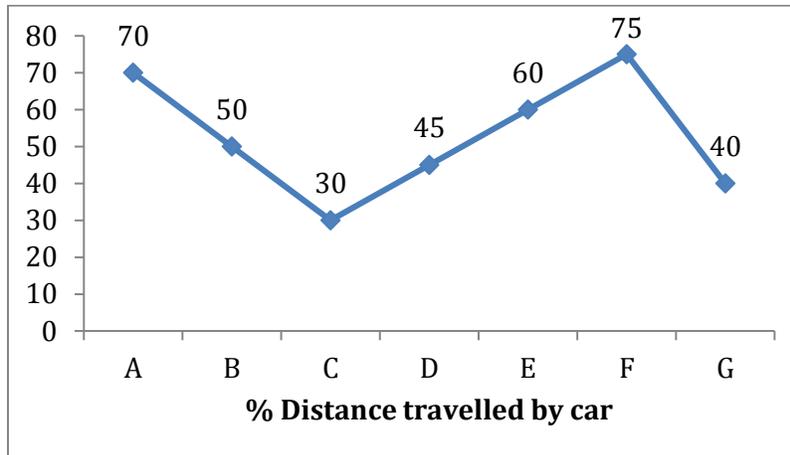
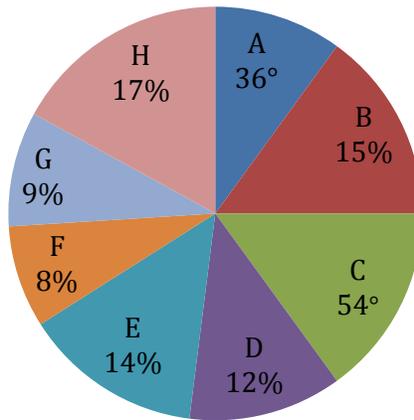
Q80. In how many different ways can the letters of the word 'HAPPY' be arranged?

- (a) 120
- (b) 140
- (c) 60
- (d) 70
- (e) 45

Directions (81-85): Read the given data carefully and answer the given question

Pie chart shows the percentage distribution of time taken by 8 different persons namely A, B, C, D, E, F, G and H to reach a particular point but the starting point is not same and total time taken by all of them together is 500 hr. (partly by car and remaining by train)

The line graph shows percentage distribution distance travelled by car out of total distance travelled by them individually.



Q81. Find speed of E by train, if the speed of car is 60 km/hr and time taken by car and train are in the ratio of 4 : 3.

- (a) 50 km/hr
- (b) 45 km/hr
- (c) $53\frac{1}{3}$ km/hr
- (d) $56\frac{2}{3}$ km/hr
- (e) $51\frac{2}{3}$ km/hr

Q82. Find the speed of D by car. If the speed by train is 22 km/hr and time taken by car is 50% less than the train.

- (a) 45 km/hr
- (b) 54 km/hr
- (c) 36 km/hr
- (d) 65 km/hr
- (e) 48 km/hr

Q83. If the distance travelled by B, C and D together and E, F, G and H together is same. Then find the ratio of speed of B, C and D together and that of E, F, G and H together.

- (a) 6 : 5
- (b) 8 : 7
- (c) 7 : 8
- (d) 5 : 6
- (e) 7 : 9

Q84. Average speed of A and C are in the ratio of 4 : 3 and C have travelled 500 km more than A. Find the speed of A by car if the speed of A by train is 120 km/hr.

- (a) 80 km/hr
- (b) 60 km/hr
- (c) 65 km/hr
- (d) 75 km/hr
- (e) None of these

Q85. Total distance travelled by G is 2250 and the speed by train is 45 km/hr. Find the speed of G by car.

- (a) 50 km/hr
- (b) 60 km/hr
- (c) 70 km/hr
- (d) 40 km/hr
- (e) 80 km/hr

Directions (86-90): What should come in place of question mark (?) in the following questions?

Q86. $\sqrt{1225} \div \sqrt[3]{343} \times 45\% \text{ of } 760 = ?$

- (a) 1170
- (b) 1760
- (c) 1510
- (d) 1710
- (e) 1050



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Q87. $[(5\sqrt{7} + \sqrt{7}) \times (4\sqrt{7} + 8\sqrt{7})] - (19)^2 = ?$

- (a) 143
- (b) $72\sqrt{7}$
- (c) 134
- (d) $70\sqrt{7}$
- (e) $143\sqrt{7}$

Q88. $1\frac{1}{4} + 1\frac{5}{9} \times 1\frac{5}{8} \div 6\frac{1}{2} = ?$

- (a) $\frac{17}{8}$
- (b) $\frac{27}{56}$
- (c) $42\frac{21}{23}$
- (d) $18\frac{2}{3}$
- (e) $1\frac{23}{36}$

Q89. (21% of 1326) - (17% of 932) = ?

- (a) 120.02
- (b) 206.05
- (c) 240.04
- (d) 120.20
- (e) 204.25

Q90. $(?)^3 \div 32 = 54$

- (a) 18
- (b) 12
- (c) 14
- (d) 16
- (e) 11

Q91. Veer can do a piece of work in 24 days. He started working and works for eight days and the remaining work is completed by Ayush and Mahendra together in $11\frac{3}{7}$ days. The efficiency of Mahendra is 25% less than Ayush. In how many days, Mahendra and Veer working together can finish the whole work?

- (a) 8 days
- (b) 10 days
- (c) 12 days
- (d) 15 days
- (e) 18 days



Q92. There are two vessels A and B. Vessel A contains $(x + 24)$ liters mixture of milk and water in the ratio of 3 : 2, while vessel B contains $(x + 44)$ liters mixture of milk and water in the ratio of 5 : 3. If 25% of mixture from vessel A and 43.75% of mixture from vessel B is taken out, then the remaining quantity of the mixture in both the vessels become equal. Find the initial quantity of milk in vessel A and B respectively?

- (a) 36 liters, 50 liters
- (b) 24 liters, 56 liters
- (c) 18 liters, 24 liters
- (d) 40 liters, 48 liters
- (e) 48 liters, 54 liters

Q93. Volume of a cylinder is $6174\pi \text{ cm}^3$, if the ratio between the radius and the height of cylinder is 3 : 2. Find the volume of a sphere, if the radius of the sphere is $33\frac{1}{3}\%$ of the radius of cylinder?

- (a) $\frac{1382\pi}{3} \text{ cm}^3$
- (b) $\frac{1292\pi}{3} \text{ cm}^3$
- (c) $\frac{1342\pi}{3} \text{ cm}^3$
- (d) $\frac{1332\pi}{3} \text{ cm}^3$
- (e) $\frac{1372\pi}{3} \text{ cm}^3$

Q94. The second lowest number of five consecutive odd number series is four more than the $\frac{5}{12}$ th of the third highest number of a five consecutive even number series. If the average of five consecutive even number series is 60, then find the difference between the highest number of both the series?

- (a) 27
- (b) 29
- (c) 31
- (d) 33
- (e) 37

Q95. The speed of Tejas express and Rajdhani express is 108 km/hr and 144 km/hr respectively. Tejas express crossed stationary Shatabdi express in $\frac{52}{3}$ sec. If the ratio of length of Tejas express, Shatabdi express and Rajdhani express is 6 : 7 : 8. Then in what time, Rajdhani express will cross Tejas express if both are running in the same direction?

- (a) 48 sec
- (b) 56 sec
- (c) 42 sec
- (d) 40 sec
- (e) 36 sec



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Directions (96-100): Table given below show the distribution of Pens of two companies (A and B) sold by five sellers. In this some are Ball pen and remaining are Gel pen. Study the data carefully and answer the following question.

Sellers	Total Pen Sold	Ball Pen sold (in %)	A : B (Ball Pen)	A : B (Gel Pen)
Abhishek	12000	52%	5 : 8	7 : 5
Satish	9000	65%	7 : 6	4 : 3
Veer	7500	60%	11 : 4	5 : 3
Abhimanyu	14000	40%	4 : 3	3 : 5
Kuwar	10500	45%	4 : 5	7 : 4

Q96. Total gel pen of company 'A' sold by Satish is what percent more than total ball pen of company 'B' sold by Veer?

- (a) 35%
- (b) 37.5%
- (c) 40%
- (d) 45%
- (e) 50%

Q97. Total pen sold by Abhimanyu and Kuwar together of company 'B' is how much more than total pen sold by Veer and Abhimanyu together of company 'A'.

- (a) 900
- (b) 850
- (c) 800
- (d) 750
- (e) 700

Q98. Average number of ball pen of company A sold by Abhishek, Satish and Veer together is how much more than average number of ball pen of company A sold by Abhimanyu and Kuwar together.

- (a) 200
- (b) 225
- (c) 250
- (d) 300
- (e) 350

Q99. Gel pen of company A sold by Veer is what percent more than the same type of pen sold by him of company B?

- (a) 40%
- (b) $66\frac{2}{3}\%$
- (c) $33\frac{1}{3}\%$
- (d) 60%
- (e) $54\frac{1}{3}\%$

Q100. Find the total number of pen of company 'B' sold by Abhishek & Satish together?

- (a) 12,760
- (b) 11,420
- (c) 10,290
- (d) 11,920
- (e) 11,240

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

Q101. ?, 13, 16, 24, 39, 63, 98

- (a) 14
- (b) 12
- (c) 10
- (d) 13
- (e) 11

Q102. 5040, 2520, 7560, 1890, 9450, ?

- (a) 1575
- (b) 1590
- (c) 1675
- (d) 1175
- (e) 1475

Q103. 105, 177, 219, 239, 245, ?

- (a) 246
- (b) 245
- (c) 247
- (d) 250
- (e) 248

Q104. 29, 40, 57, 80, 111, ?

- (a) 150
- (b) 151
- (c) 152
- (d) 147
- (e) 155

Q105. 315, 288, 352, 227, ?, 100

- (a) 449
- (b) 447
- (c) 445
- (d) 443
- (e) 453



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Directions (106-110): Data given below shows number of persons travel in three type of vehicles (car, bus and train) from three cities (X, Y and Z) on a particular day.

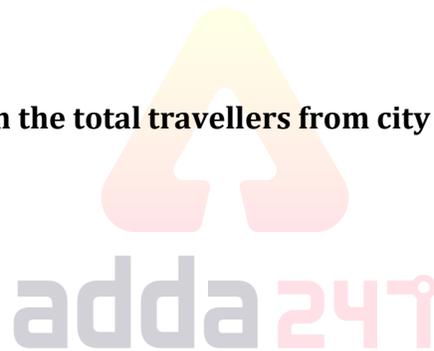
- 32% of travelers of city X travel by car. Out of remaining 25% travel by bus and remaining by train. Number of persons who travel by car from city Y is 25% more than the persons travelling by car from city X. Ratio of no. of persons who travel by train from city X to that from city Y is 3 : 4. Total number of persons who travel from city Y is 40% more than that of city X.
- Number of persons who travel by car from city Z is 24% of the person who travel by bus and train together from city Y. Total number of persons who travel from city Z is 62.5% of persons who travel from city X. Number of person who travel from city X by bus and train together is 472 more than no. of person who travel from city Z by bus and train together.

Q106. What will be the minimum number of cars required so that total no. of person who travel by car from city X can travel, if maximum 4 people can sit together in a car?

- (a) 128
- (b) 256
- (c) 384
- (d) 512
- (e) 640

Q107. Find the difference between the total travellers from city Y to total travellers from city X

- (a) 520
- (b) 560
- (c) 600
- (d) 640
- (e) 680



Q108. Number of persons who travel by train from city Y is what percent more than number of persons who travel by train from city X.

- (a) 20%
- (b) $33\frac{1}{3}\%$
- (c) 50%
- (d) $66\frac{2}{3}\%$
- (e) 75%

Q109. Number of person who travel by train from city Z is 20% more than number of person who travel by bus from same city. Find the number of person who travel by train from city Z.

- (a) 280
- (b) 336
- (c) 300
- (d) 360
- (e) 356

Q110. Find the average number of person who travel by car from all cities together?

- (a) 460
- (b) 486
- (c) 512
- (d) 538
- (e) 564

Directions (111-115): Calculate the approximate value of given questions:

Q111. $\sqrt{(524.97 - 489.87)^2 \div (244.89)^2} = ? - \frac{251.93}{293.87}$

- (a) 6
- (b) 1
- (c) 7
- (d) 5
- (e) 4

Q112. $\frac{262.87+?}{6.98} + \sqrt[3]{1330.96} = (18.87)^2 - 289.86$

- (a) 187
- (b) 177
- (c) 167
- (d) 157
- (e) 147

Q113. $726.98 + (13.98)^2 - \sqrt{528.98} = ?\% \text{ of } 4998.98$

- (a) 18
- (b) 24
- (c) 28
- (d) 26
- (e) 14

Q114. $\sqrt{223.89 + 59.87 - \sqrt{399.98}} - 8 = ? - \sqrt[3]{511.98}$

- (a) 20
- (b) 16
- (c) 24
- (d) 28
- (e) 30

Q115. $\frac{11999.87}{?} + 54.9\% \text{ of } 1800 - 389.93 = 11\frac{1}{9}\% \text{ of } 9899.87$

- (a) 20
- (b) 28
- (c) 32
- (d) 36
- (e) 24



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Q116. A hemispherical bowl of radius 'R' is melted to form four spheres of radius 'r'. Find relation between their radii?

- (a) $2R = r$
- (b) $R = 2r$
- (c) $R = 3r$
- (d) $4R = 3r$
- (e) $2R = 3r$

Q117. A circle is inscribed in a square. If the difference between area of the square and circle is 262.5 cm^2 , then find the area of the rectangle whose perimeter is same as that of circle while length of rectangle is 20% more than the breadth of rectangle (in cm^2)

- (a) 1500
- (b) 1400
- (c) 700
- (d) 750
- (e) 3000

Q118. 5 inlet pipes (same capacity) can fill a tank in same time in which 3 outlet pipes (same capacity) can empty it. If 2 inlet and one outlet pipe is opened for first minutes and 5 inlet and 2 outlet pipes open for 2nd minute and process continue till tank is completely filled in 30 minutes. Find the time in which 2 outlet pipes can empty the completely filled tank.

- (a) 9 minutes
- (b) 12 minutes
- (c) 6 minutes
- (d) 10 minutes
- (e) 15 minutes

Q119. A cylinder whose height is equal to its radius is full of milk. Its milk is poured into a hemispherical bowl of same radius as of cylinder and remaining milk is poured into another hemispherical bowl of same volume as of previous one. What percentage of the volume of second hemispherical bowl remained empty?

- (a) 40%
- (b) $66\frac{2}{3}\%$
- (c) $33\frac{1}{3}\%$
- (d) 50%
- (e) 100%

Q120. In a house, there is a semicircular corridor, a circular hall and a circular garden. Sum of perimeter of corridor and hall is 102 m. If radius of hall is 50% more than radius of corridor then find area of circular garden, given radius of garden is 300% more than sum of radius of corridor and radius of hall together.

- (a) $6300\pi \text{ sq.m}$
- (b) $5400\pi \text{ sq.m}$
- (c) $5700\pi \text{ sq.m}$
- (d) $4200\pi \text{ sq.m}$
- (e) $4900\pi \text{ sq.m}$

Directions (121-122): In the following questions three statements either I, II and III or A, B and C are given. You have to find which statement/statements is/are sufficient to solve the given problem.

Q121. What is the cost price of the wrist watch?

- A. The cost price of a color T.V. is $66\frac{2}{3}\%$ more than the cost price of the watch.
B. The cost price of a ceiling fan is 400 rupees less than the cost price of the watch.
C. The ratio of cost prices of T.V. and ceiling fan is 10: 3.
(a) Either A and B or B and C together are sufficient.
(b) All the statements together are required to solve the question.
(c) Any two of them is sufficient to solve the question.
(d) A and C together are sufficient.
(e) Anyone of them

Q122. What is the speed of the motorbike?

- A. A car travels the same distance in 3 hours as the bike travels in 6 hours.
B. Speed of the car is $33\frac{1}{3}\%$ more than the speed of a train having a length of 150 m which crosses a pole in 6 seconds.
C. The car crosses a standing goods train of length 800 m in 24 seconds. (The length of the car is negligible)
(a) Either A and B together or A and C together are sufficient to give the answer.
(b) All the three statements are required.
(c) A and B together are sufficient to solve the problem.
(d) B and C together are sufficient to give the answer.
(e) None of the above.

Q123. The expenses on rice, fish and oil of a family are in the ratio 12 : 17 : 3 respectively. The price of these articles is increased by 20%, 30% and 50% respectively. The total expenses of family on these articles are increased by:

- (a) $14\frac{1}{8}\%$
(b) $7\frac{1}{8}\%$
(c) $56\frac{1}{8}\%$
(d) $28\frac{1}{8}\%$
(e) 28%

Q124. The simple interest on a certain sum of money for 3 years at 8% per annum is half the compound interest on Rs. 8000 for 2 years at 10% per annum. Find the sum on which simple interest is calculated.

- (a) Rs. 3500
(b) Rs. 3800
(c) Rs. 4000
(d) Rs. 3600
(e) Rs. 3200

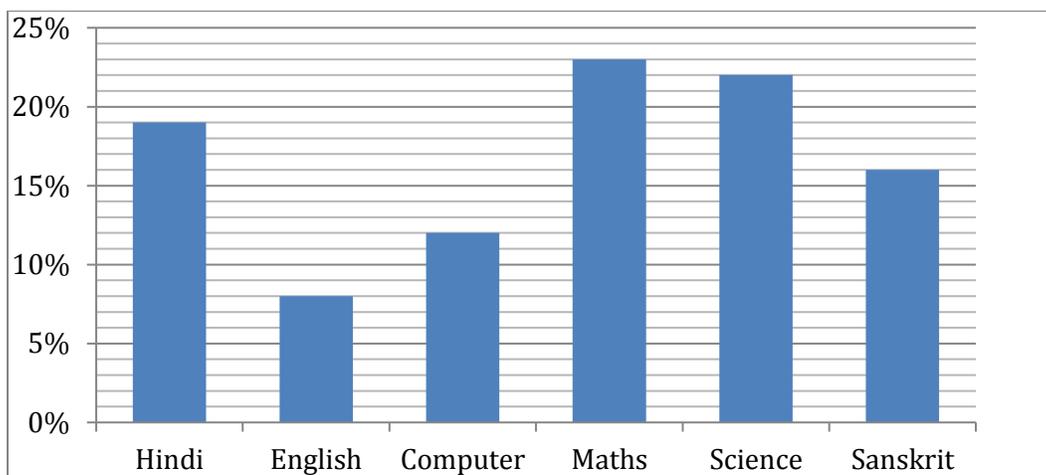
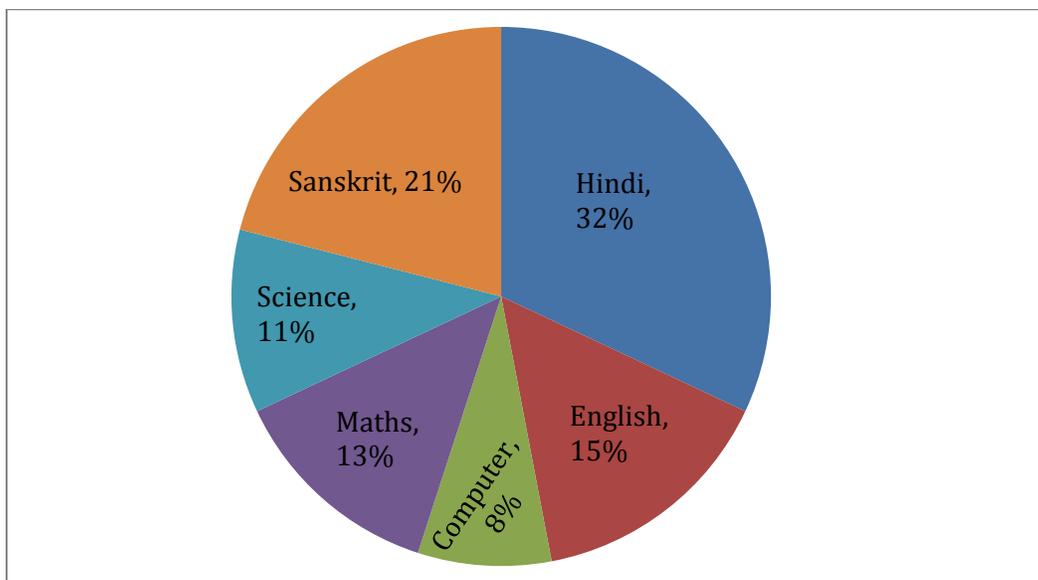


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Q125. According to a plan, a drilling team had to drill to a depth of 270 metres below the ground level. For the first three days the team drilled as per the plan. However, subsequently finding that their resources were getting underutilized according to the plan, it started to drill 8 metres more than the plan every day. Therefore, a day before the planned date they had drilled to the depth of 280 metres. How many metres of drilling was the plan for each day?

- (a) 38 metres
- (b) 30 metres
- (c) 27 metres
- (d) 28 metres
- (e) 24 metres

Direction (126-130): Percentage of students interested in studying different subjects (Hindi, English, Computer, Math, Science, Sanskrit) in Pie chart & percentage of girls interested in studying these subjects in bar graph.



**RATIO OF BOYS: GIRL = 5:3
TOTAL STUDENTS = 48,000**

Q126. For which of the subjects, the ratio of percentage of student interested in that subject to the percentage of girls interested in that subject is minimum?

- (a) Science
- (b) Computer
- (c) Math
- (d) English
- (e) None of these

Q127. What is the difference between the no. of girls interested in studying computer and that of science?

- (a) 1.5 thousand
- (b) 2.2 thousand
- (c) 1.8 thousand
- (d) 1.9 thousand
- (e) None of these

Q128. What is the ratio of the no. of boys interested in Computer and English together to that of girls interested in studying Sanskrit and Math together?

- (a) 124 : 117
- (b) 128 : 119
- (c) 19 : 17
- (d) 23 : 19
- (e) None of these



Q129. What is the ratio of the no. of students interested in studying maths and Sanskrit together to that interested in Hindi and Science together?

- (a) 23 : 32
- (b) 34 : 43
- (c) 101 : 130
- (d) 11 : 32
- (e) None of these

Q130. No. of girls studying Hindi and English together is approximately what percent of the no. of boys studying the same subject?

- (a) 27%
- (b) 30%
- (c) 17%
- (d) 23%
- (e) 21%

Directions (131-135): In the given question, two equations numbered I and II are given. You have to solve both the equations and

Give answer:

- a. If $x < y$
- b. If $x > y$
- c. If $x \geq y$
- d. If $x \leq y$
- e. If relationship between x and y cannot be established.

Q131. I. $2x^2 - 7x + 3 = 0$

II. $2y^2 - 7y + 6 = 0$

Q132. I. $4x^2 + 16x + 15 = 0$

II. $2y^2 + 3y + 1 = 0$

Q133. I. $9x^2 - 45x + 56 = 0$

II. $4y^2 - 17y + 18 = 0$

Q134. I. $2x^2 + 11x + 14 = 0$

II. $2y^2 + 15y + 28 = 0$

Q135. I. $6x^2 + 11x + 4 = 0$

II. $4y^2 - 7y - 2 = 0$

