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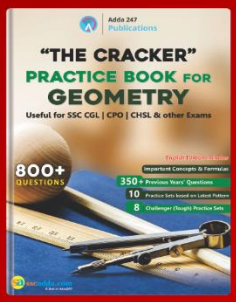

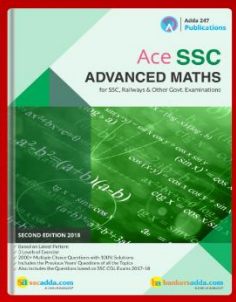

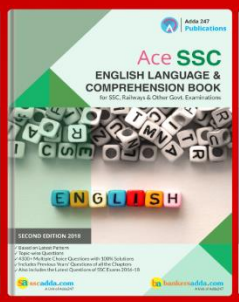

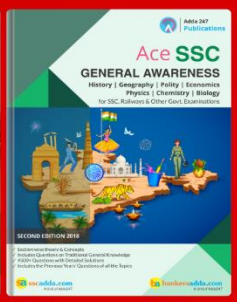

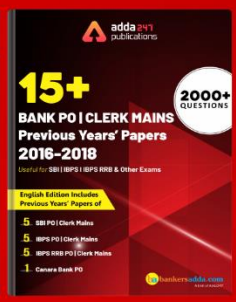

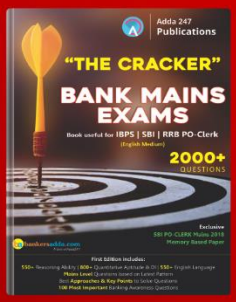

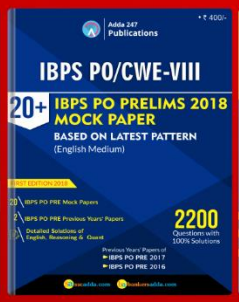

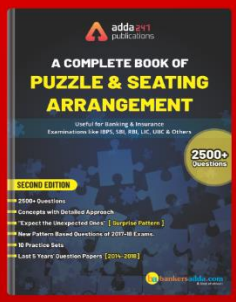

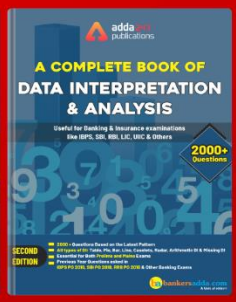

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Q1. A and B can do a piece of work in 72 days. B and C can do it in 120 days. A and C can do it in 90 days. In what time all of them can do it together?
(a) 80 days
(b) 100 days
(c) 120 days
(d) 150 days
(e) 60 days

Q2. Bharat and Priyanka can do a piece of work in 45 and 40 days respectively. They began the work together, but Bharat leaves after some days and Priyanka finished the remaining work in 23 days. After how many days did Bharat leave?
(a) 7 days
(b) 8 days
(c) 9 days
(d) 11 days
(e) None of these

Q3. A and B can do a piece of work in 9 days and 18 days, respectively. As they were ill, they could do 90% and 72% of their efficiency, respectively. How many days will they take to complete the work together?
(a) $7\frac{1}{7}$
(b) 8
(c) 5
(d) 10
(e) None of these

Q4. P can cultivate $\frac{2}{5}$th of the land in 6 days, Q can cultivate $\frac{1}{3}$rd of the same land in 10 days, working together P and Q can cultivate $\frac{4}{5}$th of the land in:
(a) 7 days
(b) 8 days
(c) $8\frac{2}{3}$days
(d) 9 days
(e) None of these

Q5. 25 men and 15 women can complete a piece of work in 12 days. All of them start working together and after working for 8 days the women stopped working. 25 men completed the remaining work in 6 days. How many days will it take for completing the entire job if only 15 women are put on the job?
(a) 27 days
(b) 88 days
(c) 32 days
(d) 46days
(e) 36 days

Q6. X started from a point A towards point B. After 2 hours. Y started from B towards A. By the time X travelled one-fifth of the total distance, Y had also travelled the same. If Y's speed is thrice that of X's speed, find the difference in the times (in hours) taken by X and Y to reach their destinations.
(a) 10
(b) 20
(c) 15
(d) 25
(e) 5

Q7. A 360 meters long train crosses a platform in 120 seconds. What is the speed of the train?
(a) 3 m/s
(b) 5 m/s
(c) 4.5 m/s
(d) Cannot be determined
(e) None of these

Q8. A person covers a total distance of 140 km in 15 hours. He covers some part of journey by bus with a speed of 14 km/h and rest part of Journey by cycle with a speed of 7km/h. What distance he covered by cycle?
(a) 80 km
(b) 70 km
(c) 50 km
(d) 60 km
(e) 45 km

Q9. The radius of a circle is three fifth of that of a sphere. The volume of the sphere is $\frac{4000\pi}{3} m^3$. If ratio between area of a square and that of the circle is 14: 11, then what is the perimeter of the square (Use $\pi \frac{22}{7}$)
(a) 64 m
(b) 52 m
(c) 48 m
(d) 32 m
(e) 40 m

Q10. The radius of a circular field is equal to the side of a square field. If the difference between the perimeter of the circular field and that of the square field is 32m, what is the perimeter of the square field? (in metere)
(a) 84
(b) 95
(c) 56
(d) 28
(e) 112

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Direction (11-15): Read the data carefully and answer the questions.

A company is the producer of bottles and it used to sell bottles at production cost through distributor on a condition that on selling the stock of every 50 bottles, distributor will get Rs. 1000 as commission. The distributor is responsible to sell all those bottles to retailers. If distributor marks the bottles at the price which is 30% above the production cost (cost price) and allows a discount of Y%. Distributor sells total of 'X' bottles which is 40 less than total received stock by distributor. Total production price of whole stock of bottles received by distributor to sell to retailers is Rs. 7.8 lakhs. The commission received by distributor is Rs. 7000 and he made a profit of Rs 1.4 lakhs on selling the bottles.

Q11. What is value 'Y'?

(a) $9\frac{9}{13}\%$

(b) $7\frac{9}{13}\%$

(c) $5\frac{9}{13}\%$

(d) $8\frac{9}{13}\%$

(e) None of these

Q12. What will be ratio of (Y% of 100) : (X + 40)?

(a) 10 : 511

(b) 10 : 503

(c) 10 : 513

(d) 10 : 507

(e) 10 : 509

Q13. Instead of 'Y' distributor allow 10% discount on one bottle, then percentage profit of distributor?

(a) 17%

(b) 15%

(c) 12%

(d) 10%

(e) 19%

Q14. If company added given commission in cost price and he give stock of (X + 450) bottles to another distributor who sold all stock, then find new cost price of one bottle?

(a) 2200 Rs.

(b) 2020 Rs.

(c) 2040 Rs.

(d) 2060 Rs.

(e) 2080 Rs.

Q15. If distributor allowed two successive discounts of 5% and 12.5% on marked price, then find the profit made by distributor on selling of one bottle?
(a) 161.25 Rs.
(b) 162.25 Rs.
(c) 172.25 Rs.
(d) 176.25 Rs.
(e) 174.25 Rs.

Directions (16-20): What should come in place of question mark (?) in the following questions?

Q16. 75% of 450 + 25% of 850 = ?
(a) 540
(b) 580
(c) 550
(d) 560
(e) 555

Q17. $? = \sqrt{273 - 119 \times 3 + 280}$
(a) 14
(b) 20
(c) 24
(d) 16
(e) 12

Q18. $(4)^{?} = 32 \times 512 \div 128 \times 8$
(a) 3
(b) 3.5
(c) 4
(d) 4.5
(e) 5

Q19. $? + 2\frac{1}{3} + 5\frac{1}{6} - 7\frac{8}{11} = 3\frac{3}{11} + 8\frac{1}{2}$
(a) $12\frac{2}{7}$
(b) $11\frac{5}{6}$
(c) 12
(d) 11
(e) $12\frac{2}{11}$

Q20. $8\frac{1}{3}\%$ **of 240** $= 25\%$ **of** $? - 8\frac{1}{3}\%$ **of 384**
(a) 280
(b) 216
(c) 240
(d) 256
(e) 208

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Direction (21-24): Read the following passage and answer the questions based on it.

The Bangalore office of Infosys has 1200 executives. Out of these, 880 subscribe to the Time magazine and 650 subscribe to the Economist. Each executive may subscribe to either the Time or the Economist or both. If an executive is picked at random, find the probability that

Q21. He has subscribed to the Time magazine.

(a) $\frac{11}{15}$
(b) $\frac{11}{12}$
(c) $\frac{7}{15}$
(d) $\frac{7}{11}$
(e) $\frac{4}{15}$

Q22. He has subscribed to the Economist.

(a) $\frac{13}{21}$
(b) $\frac{13}{20}$
(c) $\frac{13}{24}$
(d) $\frac{12}{30}$
(e) $\frac{11}{24}$

Q23. He has subscribed to both magazines.

(a) $\frac{22}{40}$
(b) $\frac{11}{40}$
(c) $\frac{12}{20}$
(d) $\frac{4}{20}$
(e) $\frac{13}{40}$

Q24. If among the executives who have subscribed to the Time magazine, an executive is picked at random. What is the probability that he has also subscribed to the Economist?

(a) $\frac{3}{8}$
(b) $\frac{5}{8}$
(c) $\frac{2}{3}$
(d) $\frac{1}{8}$
(e) $\frac{7}{8}$

Q25. Three persons Dev, Deepak and Dudhiya Singh run a race. The probability of completing the race by them is $\frac{1}{3}, \frac{2}{5}$ and $\frac{4}{5}$ respectively. Find the probability that at least two persons complete the race.
(a) 12/25
(b) 38/75
(c) 17/35
(d) 26/49
(e) 37/75

Directions (26 -30): Two equations I and II are given below. 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

Q26. I. $2x^2 + 21x + 10 = 0$
II. $3y^2 + 13y + 14 = 0$

Q27. I. $4x^2 - 13x + 9 = 0$
II. $3y^2 - 14y + 16 = 0$

Q28. I. $8x^2 + 18x + 9 = 0$
II. $4y^2 + 19y + 21 = 0$

Q29. I. $3x^2 + 16x + 21 = 0$
II. $6y^2 + 17y + 12 = 0$

Q30. I. $16x^2 + 20x + 6 = 0$
II. $10y^2 + 38y + 24 = 0$

Directions (31-33): 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

Q31. Quantity 1: Maximum aggregate marks that a student can get. In an examination it is required to get 65% of the aggregate marks to pass. A student gets 684 marks and is declared failed by 8% marks.
Quantity 2: No. of different ways in which the letters of the word 'VIRTUAL' will be arranged such that all the vowels come together.

Q32. Quantity 1: Number of balls made after casting. A solid metallic cylinder having 6cm radius and 24cm height is melted and recast into small spherical balls having 6cm diameter.
Quantity 2: No. of days taken by A to complete the same work alone. A and B can complete a work in 12 days together, B and C can complete the same work in 15 days together and A and C can complete that work in 20 days together.

Q33. Quantity 2: Cost price to the manufacturer. A manufacturer sells a pair of glasses to a wholesale dealer at a profit of 17%. The wholesaler sells the same to a retailer at a profit of 25%. The retailer in turn sells them to a customer for Rs. 32.76, thereby earning a profit of 40%.
Quantity 1: Area of the hall if the Material cost of flooring per m^2 is Rs. 250 while labor cost of flooring the hall is Rs. 3500 and the total cost of flooring the hall is Rs. 14500.

Q34. The population of a colony was 3600 three years back. It is 4800 right now. What will be the population after three years, if the rate of growth of population has been constant over the years and has been compounding annually?
(a) 6000
(b) 6400
(c) 7200
(d) 9600
(e) 4200

Q35. A man can row 30 Km upstream and 44 Km downstream in 10 hrs. Also, he can row 40 Km upstream and 55 Km downstream in 13 hrs. The rate of the current is:
(a) 3 Km/h
(b) 3.5 Km/h
(c) 4 Km/h
(d) 4.5 Km/h
(e) 6 Km/h

Directions (36-40): The following table shows the total no. of students studying in five different colleges and ratio of boys and girls in that. Table also shows the percentage of students who are involved in sports also. Study table carefully to answer the following questions.

Collages	Total Students	Boys: Girls	% of students involved in sports also
P	60,000	2 : 1	$16\frac{2}{3}\%$
Q	75,000	2 : 3	40%
R	80,000	5 : 3	25%
S	90,000	5 : 4	30%
T	70,000	4 : 3	20%

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Q36. Find the total no. of students who are involved in sports also from collages P, R and T together.
(a) 40,000
(b) 44,000
(c) 48,000
(d) 52,000
(e) 36,000

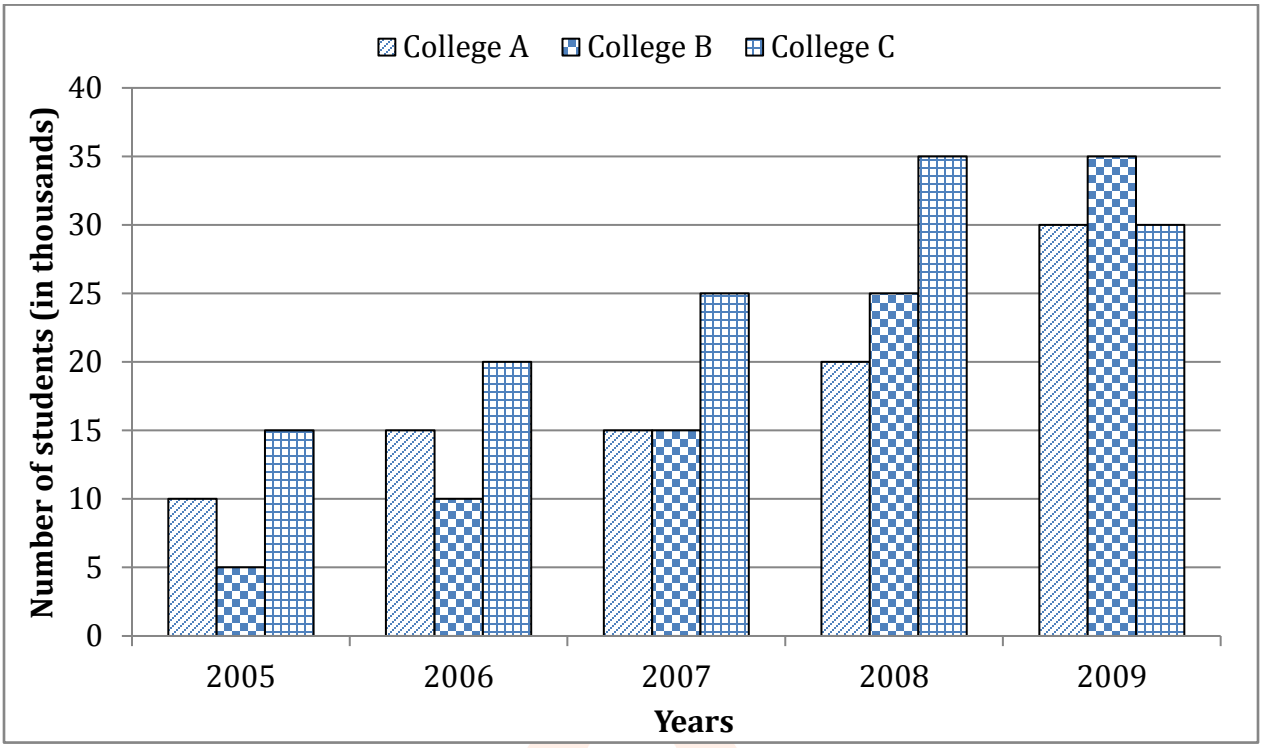
Q37. Total no. of boys from collage Q is how much percent more or less than the total no. of girls from the college S?
(a) 20% less
(b)25% more
(c) 25% less
(d) 20% more
(e) 30 % more

Q38. What is the average no. of students from colleges P, Q and R together who are involved in sports also?
(a) 20,000
(b) 24,000
(c) 30,000
(d) 26,000
(e)18,000

Q39. What is the difference between total no. of boys and total no. of girls from colleges R and S together?
(a) 40,000
(b) 35,000
(c) 25,000
(d) 30,000
(e)20,000

Q40. If 20% and 25% students of collages P and T respectively, out of those who are involved in sports also, are sent to a state level game then find the no. of sport students form these colleges who are not sent for the state level games.
(a) 18,500
(b) 16,500
(c) 14,500
(d) 20,500
(e)15,800

Directions (41-45): The following bar graph shows the total no. of students (in thousands) of three different colleges over five different years.
Study the carefully to answer the following questions.



Q41. What is the average no. of students in college B over all the years?
(a) 18000
(b) 20000
(c) 23000
(d) 14000
(e) 12000

Q42. Total no. of students of which college is least?
(a) A
(b) B
(c) C
(d) B and C both
(e) A and B both

Q43. The no. of students of college B in year 2008 are what percent more or less than the no. of students of college A in same year?
(a) 25% less
(b) 25% more
(c) 30% more
(d) 35% less
(e) 35% more

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Q44. What is the difference between total no. of students of college C and that of college B overall all the years?
(a) 30 thousand
(b) 25 thousands
(c) 35 thousands
(d) 22 thousands
(e) 45 thousands

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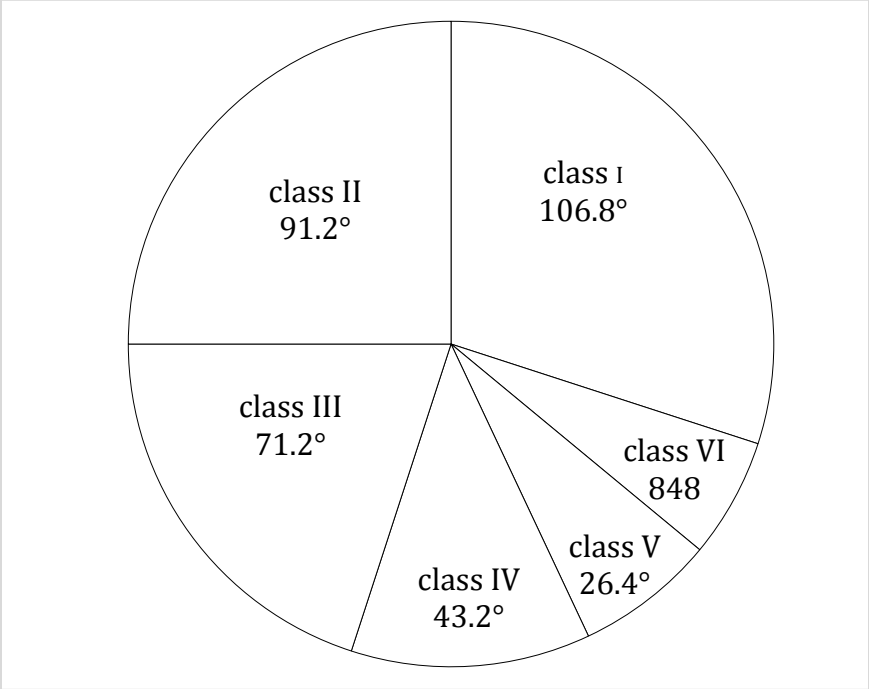
Q45. Find the ratio of total students of college A to that of the college B over all the years:
(a) 3 : 2
(b) 3 : 1
(c) 2 : 3
(d) 1 : 1
(e) 1 : 2

Directions (46-50): The following pie-chart shows the distribution of chocolates (in degree) among children of different classes of Bal Bharti School. Study the chart carefully to answer the following questions.
Note: Some data are in degree while some data are in absolute value in the following chart.



Q46. Total no. of chocolates distributed among class V students is what percent of total chocolates distributed among class VI students (approximately)?
(a) 140%
(b) 125%
(c) 145%
(d) 120%
(e) 155%

Q47. If ratio of boys to girls in class I be 3 : 1 and each student get two chocolate then how many boys are there in class I who got Chocolates?
(a) 1402
(b) 1206
(c) 1602
(d) 1802
(e) 1600

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Q48. What is the average no. of Chocolates distributed among students of class II and III together?
(a) 4210
(b) 4280
(c) 3036
(d) 3248
(e) 3642

Q49. Total Chocolates distributed among students of class II and class IV together is what percent more or less than the total no. of chocolates distributed among students of class VI and I together?
(a) 5% less
(b) 5% more
(c) 25% more
(d) 10% more
(e) 10% less

Q50. What is the difference between total chocolates distributed among students of class I, II and VI together and total chocolates distributed among students of class III, IV and V together?
(a) 2,136
(b) 4,236
(c) 4,136
(d) 4,436
(e) 3,136