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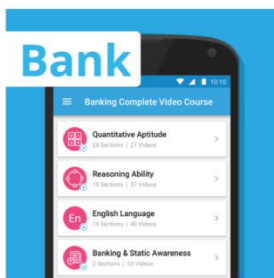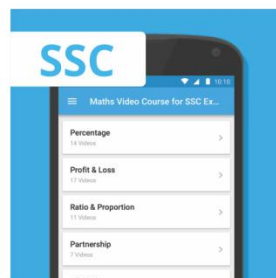
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Q1. A man can swim at the rate of 12 km/hr in still water and rate of flow of river is 4 km/hr. A wooden log started to flow with the speed of river and man also started to swim downstream from same place and at same time. Man after covering 100 km downstream, returns and started to swim upstream. Man meet the wooden log at a distance of x from starting point. Find x.
(a) 50 km
(b) 60 km
(c) 80 km
(d) 85 km
(e) 90 km

Q2. A shopkeeper has 12 kg of pure rice and 4 kg of impure rice. He mixes both type of rice but 4 kg of the mixture gets spoiled. If he again mixes 4 kg of impure rice to the remaining mixture and professes to sell rice at a profit of 20% on cost of pure rice. Then what is actual profit or loss percentage if cost of impure rice is 40% of cost of pure rice.
(a) $\frac{400}{19}\%$
(b) $\frac{250}{21}\%$
(c) $\frac{250}{19}\%$
(d) $\frac{250}{17}\%$
(e) $\frac{500}{19}\%$

Q3. Cost price of 3 pens is equal to the cost price of 5 pencils. If equal number of pens and pencils are sold and pens are sold at 20% profit and pencils are sold at $\frac{100}{3}\%$ profit then what is the overall profit percentage.
(a) 18%
(b) 15%
(c) 22%
(d) 25%
(e) 30%

Q4. If ratio of investment A, B and C are in the ratio 3 : 5 : 8 and the time of investment of A, B and C are $\frac{100}{3}\%$, 80% and 25% respectively of their investment, and profit of A is 4800 then what will be the profit of C.
(a) 25,600
(b) 15,600
(c) 24,800
(d) 22,500
(e) 26,700
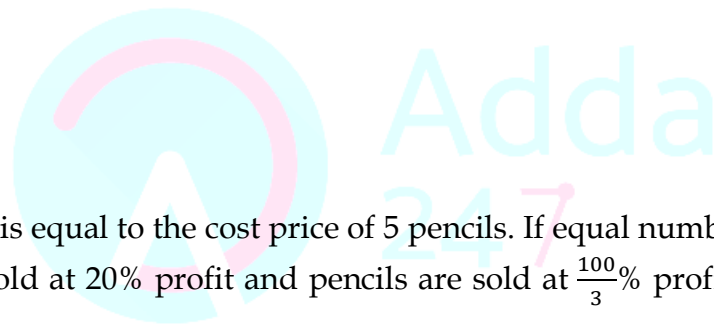
Q5. If the volume and curved surface area of a cylinder 616 m³ and 352m² respectively, what is the total surface area of the cylinder (in m²)?
(a) 429
(b) 419
(c) 435
(d) 421
(e) 417

Directions (6-10): What would come in place of question mark (?) in the following number seires ?
Q6. 7776,   15552,   16177,   16241,   ?
(a) 16250
(b) 16268
(c) 16322
(d) 16338
(e) None of these

Q7. 168,   94,   152,   392,   ?
(a) 1352
(b) 1305
(c) 1395
(d) 1385
(e) None of these

Q8. 2,   8,   22,   46,   ?   132
(a) 80
(b) 76
(c) 82
(d) 78
(e) None of these

**Q9.** 19,   25,   45,   87,   159,   ?
(a) 254
(b) 279
(c) 284
(d) 269
(e) None of these

Q10. 83,   124,   206,   370,   698,   ?
(a) 1344
(b) 1324
(c) 1364
(d) 1334
(e) None of these

Directions (11-15): Given below is the pie chart which shows the percentage distribution of books of publisher 'X' sold by 7 different books store in year 2016. Table shows the ratio of books sold of publisher X to publisher Y in these seven book stores.

Some values are missing in the table. You have to calculate these values if required to answer the questions.
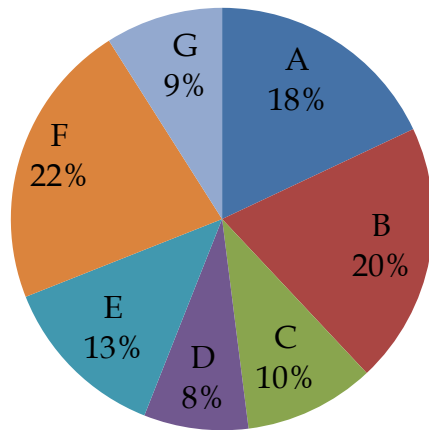
Total books sold of Publisher X = 25,700

Book store	Ratio of books sold of publisher X to publisher Y		
A	3	:	–
B	–	:	5
C	2	:	3
D	–	:	–
E	13	:	5
F	11	:	–
G	3	:	4

Q11. What is the total number of books sold by store A and B together if books sold by store A for publisher Y is $33\frac{1}{3}\%$ more than that of publisher X and Books sold by store B for publisher X is 20% less than that of publisher Y.

(a) 22359

(b) 21257

(c) 20256

(d) 23244

(e) 22556

Q12. What is the total number of books sold by store D if books sold of publisher Y in store D is 25% more than that of books sold by store D of publisher X

(a) 2520

(b) 4020

(c) 4626

(d) 4422

(e) 4528

Q13. Books sold by store E, F and G together of publisher X is what percent more or less than books sold by these store of publisher Y if books sold by store F of publisher Y is $\frac{100}{11}$% more than that of books sold by F of publisher X.

(a) $\frac{400}{31}$%

(b) $\frac{300}{41}$%

(c) $\frac{200}{9}$%

(d) $\frac{100}{9}$%

(e) $\frac{100}{11}$%

Q14. If in year 2017 total books sold by store E is increased by $33\frac{1}{3}$% over previous year and ratio of books sold of publisher X and Y by store E in 2017 is 11 : 13 then books sold by store E of publisher X in 2016 is what percent more or less than that of books sold of publisher X by store E in 2017.

(a) $\frac{200}{11}$%

(b) $\frac{200}{9}$%

(c) $\frac{100}{11}$%

(d) $\frac{100}{9}$%

(e) None of these

Q15. Average of books of publisher X sold by store B and C together is what percent more or less than that of average of books of publisher Y sold by store E and G together

(a) $\frac{1100}{12}$%

(b) $\frac{1100}{17}$%

(c) $\frac{1300}{17}$%

(d) $\frac{1400}{7}$%

(e) $\frac{1700}{11}$%

Directions (16-20): In the given questions, two quantities are given, one as Quantity I and another as Quantity II. You have to determine relationship between two quantities and choose the appropriate option

Q16 **Quantity I:** Bunty and Babli working together completed a job in 8 days. If Bunty worked twice efficiently as he actually did and Babli worked $\frac{1}{3}$ as efficiently as she actually did, the same work would have been completed in 6 days. Time taken by Bunty to complete the job alone: (2 marks)
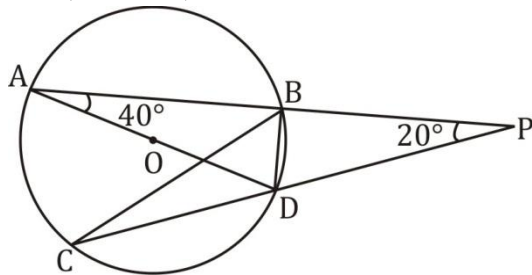
Quantity II: 13 days

(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

Q17. **Quantity I:** Overall profit percentage if the cost prices of two shirts are equal. One shirt is sold for 20% profit and the other is sold for 10% loss.

Quantity II: Profit % made in selling each meter if the profit made in selling 20 m of a cloth equals the cost price of 5 m of that cloth.(1 marks)

(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

Q18. PBA and PDC are two secants. AD is the diameter of the circle with centre at O. ∠A= 40°, ∠P = 20° (2 marks)

Quantity 1: ∠DBC

Quantity 2: ∠ADB

(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

Q19. Quantity I → Distance travelled by the bus to reach point B from point A if a car travels the same distance in 5 hrs and the speed of the bus is 120 km/hr which is 120% of the speed of the car.
Quantity II→ Distance travelled by a boat to reach point D from point C if the speed of the boat in still water is 15 km/hr and speed of current is 3 km/hr. It goes from point C to D downstream and return back from point D to C upstream in 25 hrs. (1 marks)
(a) Quantity I > Quantity II
(b) Quantity I < Quantity II
(c) Quantity I ≥ Quantity II
(d) Quantity I = Quantity II
(e) No relation

Q20. Quantity I → Value of a number which is 25% more of a number which is 75 less than 225.
Quantity II→ Value of a number which is 87% less than a number which is 25% more than 1200.(2 marks)
(a) Quantity I > Quantity II
(b) Quantity I < Quantity II
(c) Quantity I ≥ Quantity II
(d) Quantity I = Quantity II
(e) No relation

Q21. A trader marks his goods such that he can make 32% profit and after giving 12% discount. However a customer availed 20% discount instead of 12%. What is the new profit percentage of trader ?
(a) 20%
(b) 44%
(c) 30%
(d)28.8%
(e) none of these

Q22. A and B working together, can do a piece of work in $4\frac{1}{2}$ hours. B and C working together can do it in 3 hours. C and A working together can do it in $2\frac{1}{4}$ hours. All of them begin the work at the same time. Find how much time they will take to finish the piece of work?
(a) 3 hours
(b) 2 hours
(c) 2.5 hours
(d) 1 hours
(e) None of these

Q23. The length and breadth of a plot are 35 m and 16 m respectively. If the rate of fencing is Rs. 7 per metre, what is cost of its fencing around the perimeter?
(a) Rs. 3920
(b) Rs. 602
(c) Rs. 714
(d) Rs. 357
(e) none of these

Q24. P and Q started a business by investing Rs. 45,000 and Rs.54,000 respectively. After four months R joined the business with a capital of Rs. 30,000. After two more months Q left the business with his capital. At the end of the year P got a share of Rs. 13,500 in the profit. What is the total profit earned?
(a) Rs 26800
(b) Rs 27600
(c) Rs 28600
(d) Rs 29200
(e) none of these

Q25. Two types of alloy possess gold and silver in the ratio of 7 : 22 and 21 : 37. In what ratio should these alloys be mixed so as to have a new alloy in which gold and silver would exist in the ratio 25 : 62?
(a) 13 : 8
(b) 8 : 13
(c) 13 : 12
(d) 6 : 9
(e) None of these

Q26. One man and six women working together can do a job in 10 days. The same job is done by two men in 'p' days and by eight women in p + 5 days. By what percentage is the efficiency of a man greater than that of a woman?
(a) 300%
(b) 500%
(c) 600%
(d) 700%
(e) None of these

Q27. A trader marked his goods at 20% above the cost price. He sold half of the stock at marked price. One quarter at a discount of 20% on marked price and rest at a discount of 40% on marked price, then his gain is
(a) 2.5 %
(b) 2.2 %
(c) 2 %
(d) 1.9 %
(e) None of these
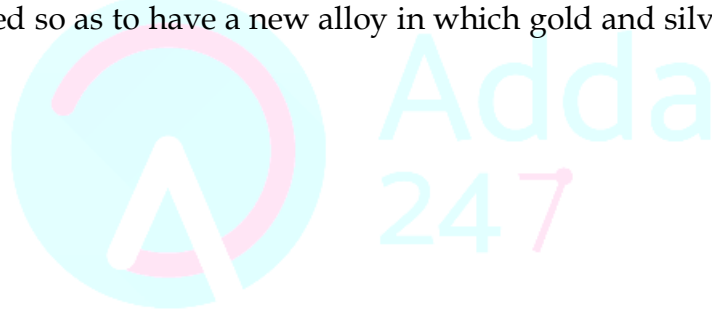
Q28. A person invests money in 3 different schemes for 6 years, 10 years and 12 years at 10%, 12% and 15% simple interest respectively. At the completion of each scheme, he gets the same interest. The ratio of his investments is
(a) 2:3:5
(b) 2:5:6
(c) 6:5:2
(d) 6:5:3
(e) None of these

Q29. In a class the average age of 40 students is 15 years .If 10 new students include then the average age of students increase by 0.2 ,find the average age (in years) of new students.
(a) 16 yr
(b) 20 yr
(c) 17 yr
(d) 19 yr
(e) 18 yr

Q30. The S.I on certain sum of money for 15 months at rate of 7.5% per annum exceed the S.I on same sum at 12.5% per annum for 8 months by Rs 3250 find sum(in Rs)?
(a) 160000
(b) 20000
(c) 170000
(d) 18000
(e) 312000

Directions (31-35): The following questions are accompanied by three statements (I), (II), and (III). You have to determine which statements(s) is/are sufficient/necessary to answer the questions.

Q31. What is the speed of a train?
I. The train crosses a signal pole in 18 secs.
II. The train crosses a platform of equal length in 36 secs.
III. Length of the train is 330 metres.
(a) I and III only
(b) II and III only
(c) I and II only
(d) III and either I or II only
(e) Any two of the three

Q32. What is the difference between two numbers X and Y?

I. X is 20 per cent more than another number Z.

II. Y is 20 per cent less than Z.

III. The sum of Y and Z is 72.

(a) Only I and II are required

(b) Only I and III are required

(c) All I, II and III are required

(d) Any two of I, II and III are required

(e) Even with all I, II and III together the answer cannot be arrived

Q33. What is the average age of the six members A, B, C, D, E& F in a family?

I. Total age of D & E is 14 years.

II. Average age of A, B, C and F is 50 years

III Average age of A, B, D and E is 40 years

(a) Only I & II

(b) Only I & III

(c) Only II & Ill

(d) All I, II & III

(e) None of these

Q34. What is the rate of interest pcpa?

I. An amount doubles itself at simple interest in 10 years.

II. The difference between the compound interest and the simple interest on an amount of Rs. 15,000 in two years is Rs. 150.

III. The compound interest accrued in 8 years is more than the amount (principal).

(a) Only I

(b) Only II

(c) Only II & III

(d) Only I & III

(e) Only either I or II

Q35. What will be the share of R in the profit earned by V, R and A together?

I. They together earned a profit of Rs. 54000 for a period of 1 yr.

II. R's investment was 25% less than V's and 50% more than A's.

III. The profit of V is Rs. 4000 more than that of A.

(a) Only I and II together

(b) II and either I or III only

(c) Only II

(d) Only II and III together

(e) None of these

Directions (36 - 40): Study the following bar graph and answer the following questions:

Given below is the graph which shows percentage of students playing three different games out of total in five different colleges.
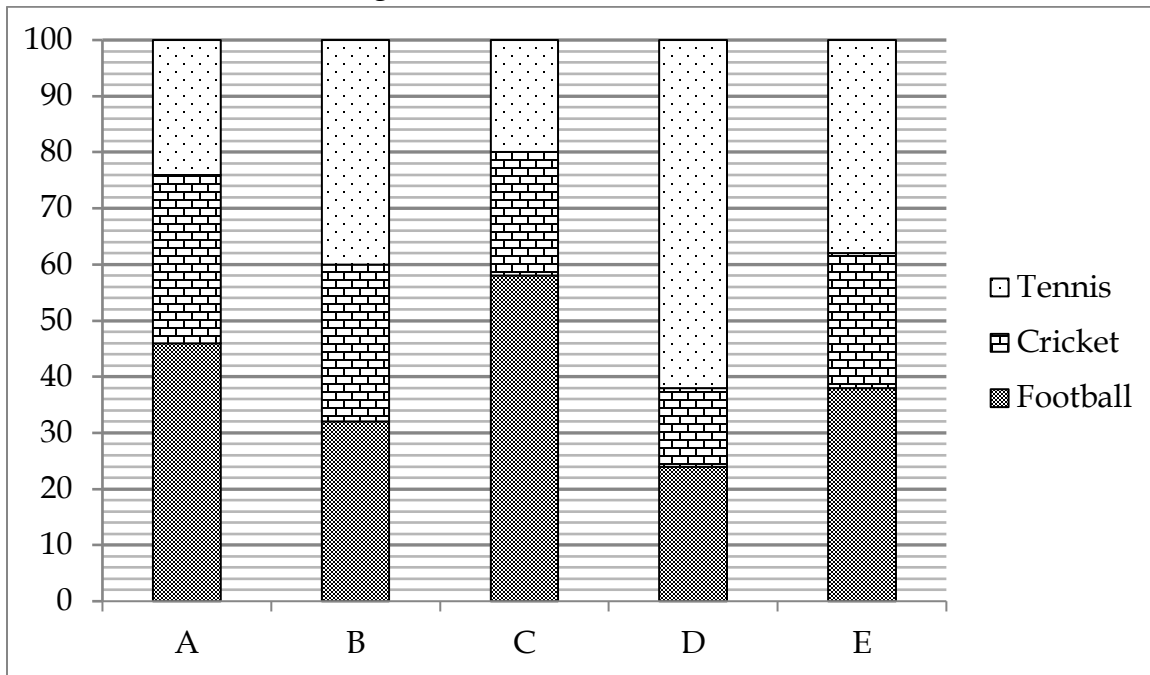
Q36. If total number of students in college B are 6400 and total students in college E are $17\frac{3}{16}$% more than total students in college B then, find the ratio of students who play tennis from college B to the students who play football from college E.

(a) 245 : 287

(b) 253 : 290

(c) 256 : 285

(d) 257 : 279

(e) 213 : 253

Q37. If ratio of students who play Cricket from college A to students who play Tennis from college C is 14 : 9 and difference between students who play Tennis from college A and students who play Cricket from C is 156, then total students in College. C are what percent more or less than total students in college A.

(a) $3\frac{4}{7}$%

(b) $5\frac{2}{3}$%

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

(d) $6\frac{1}{3}$%

(e) $3\frac{1}{7}$%

Q38. If ratio of total students in college C to total students in college D is 24 : 29 then students who play Cricket from college C are what percent more or less than students who play football from college D.

(a) $27\frac{2}{27}\%$

(b) $36\frac{1}{29}\%$

(c) $25\frac{3}{29}\%$

(d) $24\frac{4}{29}\%$

(e) $25\frac{3}{27}\%$

Q39. If number of females who play Cricket from college A are $23\frac{9}{17}\%$ less than number of males who play Cricket from college A, then females who play cricket from college A are what percent of students who play Tennis from college A.

(a) $52\frac{5}{6}\%$

(b) $51\frac{5}{6}\%$

(c) $55\frac{2}{3}\%$

(d) $51\frac{2}{7}\%$

(e) $54\frac{1}{6}\%$

Q40. Find the average of the number of students who play football and cricket from school C together if total number of students from college C are $81\frac{11}{69}\%$ of 6900.

(a) 2240
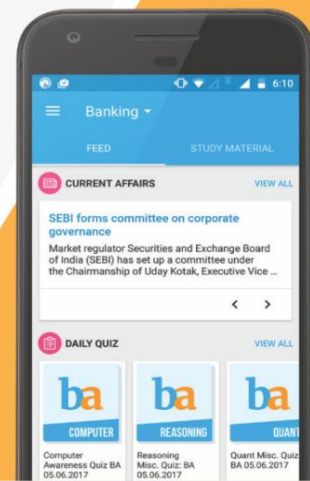
(b) 2245

(c) 2255

(d) 2250

(e) 2247