

MEMORY BASED PAPER

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RRB PO PRE QUANT MEMORY BASED Number Series

1) 4, 7, 12, 20, ?, 49

Ans : 32

2) 3.5, ?, 21, 84, 420, 2520

Ans: 7

3) 46, 50, ?, 57, 32, 68

Ans: 41

4) 66, 75, 70, 79, 74, ?

Ans: 83

5) ?, 20, 46, 109, 233, 448

Ans: 13

6) 7, 4.5, 5.5, 12, ?, 393

Ans: 49

Quadratic Equation

Direction (7-12): In the following questions, two equations numbered I and II are given. You have to solve both questions and give answer among the following options.

(a) if $x > y$

(b) if $x \geq y$

(c) if $x < y$

(d) if $x \leq y$

(e) if $x = y$ or the relationship cannot be established.

7) I. $X^2 = 16$

II. $Y^3 = 64$

Ans: E

8) I. $9x^2 - 15x + 6 = 0$

II. $12y^2 + 20y - 8 = 0$

Ans: A

9) I. $10x^2 + 663x + 198 = 0$

II. $3y^2 + 44y + 161 = 0$

Ans: E

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

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

11) $4x + 7y = 209$

II. $12x - 14y + 9 = -38$

Ans: C

12) I. $x^2 + 10x + 24 = 0$

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

Ans:C

Table DI

Direction (13 – 18): Given below table shows total three types of shoes sold by a store on five days of a week. Table also shows given total formal shoes sold by store and percentage of casual and sport shoes sold by store. Read the data carefully and answer of the questions:

Note- only three types of shoes sold by the store.

Days	Formal Shoes	% of Casual Shoes	% of Sport shoes
Monday	240	32%	20%
Tuesday	320	48%	12%
Wednesday	420	45%	20%
Thursday	360	56%	20%
Friday	340	22%	10%

13. Total casual shoes sold by store on Monday & Friday together are what percent less than total Sport shoes sold by store on Wednesday & Thursday together?

Total casual shoes sold by store on Monday and Friday together

$$\begin{aligned}
 &= \frac{240}{48} \times 32 + \frac{340}{68} \times 22 \\
 &= 160 + 110 \\
 &= 270
 \end{aligned}$$

14. Find the difference between average number of casual shoes sold by store on Tuesday & Thursday and average number of formal shoes sold by store on Thursday & Friday?

Average number of casual shoes sold by store on Tuesday & Thursday

$$\begin{aligned}
 &= \frac{\frac{320}{40} \times 48 + \frac{360}{24} \times 56}{2} \\
 &= \frac{384 + 840}{2} \\
 &= 612
 \end{aligned}$$

Average number of formal shoes sold by store on Thursday & Friday

$$\begin{aligned}
 &= \frac{360 + 340}{2} \\
 &= \frac{700}{2} \\
 &= 350
 \end{aligned}$$

Required difference = 612 – 350 = 262

15. If total casual shoes sold by store on Sunday is 25% more than that sold on Thursday and total sport shoes sold on Sunday is 300% more than that sold on Friday, then find total number of casual & sport shoes sold by store on Sunday ?

Total casual shoes sold by store on Sunday

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$$= \frac{360}{24} \times 56 \times \frac{125}{100}$$

$$= 1050$$

Total sport shoes sold by store on Sunday

$$= \frac{340}{68} \times 10 \times \frac{400}{100}$$

$$= 200$$

$$\text{Required sum} = 1050 + 200 = 1250$$

16. Total sport shoes sold by store on Wednesday is what percent more than total sport shoes sold by store on Monday and Tuesday together?

$$\text{Total sport shoes sold on Wednesday} = \frac{420}{35} \times 20$$

$$= 240$$

Total sport shoes sold on Monday & Tuesday together

$$= \frac{240}{48} \times 20 + \frac{320}{40} \times 12$$

$$= 100 + 96$$

$$= 196$$

$$\text{Required percentage} = \frac{240-196}{196} \times 100$$

$$= \frac{44}{196} \times 100$$

$$= 22 \frac{22}{49} \%$$

17. Find the ratio between total shoes sold by store on Monday to total shoes sold by store on Thursday?

$$\text{Required ratio} = \frac{\frac{240}{48} \times 100}{\frac{360}{24} \times 100}$$

$$= \frac{500}{1500}$$

$$= 1 : 3$$

18. Find the ratio between total shoes sold by store on Monday to total shoes sold by store on Tuesday?

Bar D.I

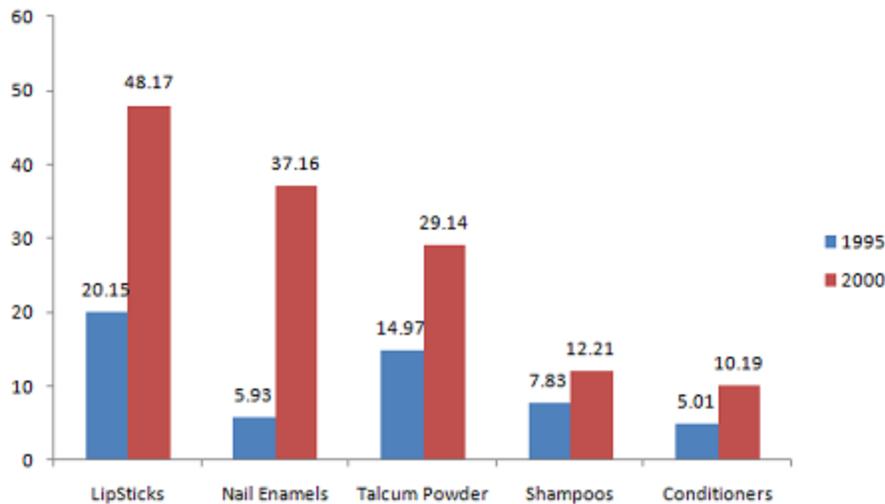
A cosmetic company produces five different products. The sales of these five products (in lakh number of packs) during 1995 and 2000 are shown in the following bar graph.

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19. The questions given below are based on this graph. The sales have increased by nearly 55% from 1995 to 2000 in the case of :

Ans: Shampoos

20. Shampoos The sales of lipsticks in 2000 was by what percent more than the sales of nail enamels in 2000?(rounded off to the nearest integer)

Ans: Required percentage = $[(48.17 - 37.16)/37.16 * 100]\% = 27.57\% = 28\%$

21. The sales of conditioners in 1995 was by what percent less than the sales of shampoos in 1995?(rounded off to the nearest integer)

Required percentage = $[(7.83 - 5.01)/7.83 * 100]\% = 36.42\% \approx 36\%$.

22. What is the approximate ratio of the sales of nail enamels in 2000 to the sales of Talcum powders in 1995?

Required ratio = $37.16/14.97 \approx 2.5 = 5/2$

23. Not Remember

24. Not Remember

Data Sufficiency

- A) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions.
- B) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.
- C) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.
- D) Either statement (I) or statement (II) by itself is sufficient to answer the question.
- E) Statements (I) and (II) taken together are not sufficient to answer the question.

25. A bag contains some red balls, five green balls and 7 yellow balls. Find number of red balls in the bag.

I. If one ball drawn from the bag at random, then probability of being green is $\frac{5}{16}$.

II. If one ball drawn from bag at random, then probability of being either red or yellow is $\frac{11}{16}$.

Ans: D

Let total number of red balls in bag = x

From I –

$$\frac{5}{x+5+7} = \frac{5}{16}$$

$$5x = 80 - 60$$

$$x = 4$$

From II –

$$\frac{x}{x+5+7} + \frac{7}{x+5+7} = \frac{11}{16}$$

$$\frac{x+7}{x+12} = \frac{11}{16}$$

$$16x + 112 = 11x + 132$$

$$5x = 20$$

$$x = 4$$

So, Either statement (I) or statement (II) by itself is sufficient to answer the question

26. A shopkeeper bought a jeans at the price of '2x'. Find the profit of shopkeeper (In Rs.)

I. Shopkeeper sold jeans at 20% profit after allowing two successive discounts of 20% & 4% respectively and difference between marked price and cost price is Rs. 810.

II. Cost price of a shirt is 75% of cost price of jeans and the difference of CP of shirt and CP of jeans is Rs. 360. Shopkeeper marks up jeans by 56.25% and allows a discount of 23.2%.

Ans: D

27. What is annual salary of Anurag?

I. If Anurag deposited 45% of his monthly salary at the rate of 20% half yearly for one year at compound interest, then he will get an amount which is Rs. 88 less than his remaining monthly salary.

II. If Anurag divided 55% of his annual salary between his son & daughter in the ratio of 13 : 11, then difference between remaining annual salary of Anurag and share of his son will Rs. 29200.

Ans: D

28. If longer train added three more compartment of 15 m each, then find in what time both trains cross each other running in opposite direction

I. Ratio between length of two trains is 4 : 5 and speed of longer trains & shorter train is 81 km/hr & 108 km/hr respectively.

II. Longer & shorter trains cross each other in 36 sec running in same direction.

Ans: C

29. Whose body weight is second highest among the five boys Arun, Vinay, Suraj, Raju and Pratap?

I. Average weight of Arun, Suraj and Vinay is 68 kg and average weight of Raju and Pratap is 72 kg. Also Suraj is 78 kg. Raju is 68 kg and Vinay is 46 kg.

II. Average weight of Arun, Suraj, Vinay and Raju is 68 kg and also Suraj is 78 kg. Raju is 68 kg and Vinay is 46 kg. All of them have different weights.

Ans: A

30. Not Remember

Miscellaneous Word Problems

31. A man invest rs X on S.I at the rate of 10.5% for two years in scheme A. If man invested total amount get by scheme A I scheme B on C.I for two years at the rate of 10% P.A and gets Rs 813.12 as invest find X?

32. There are two vessels of equal capacity, one full of milk, and the second one-third full of water. The second vessel is then filled up out of the first, the contents of the second are then poured back into the first till it is full and then again the contents of the first are poured back into the second till it is full. What is the proportion of milk in the second vessel ?

Ans: 20/23

33. 16 Men can do a work in 20 days 14 female can do some work in 30 days. 40 Men start work and for 5 days if 21 female replaced then find time taken by 21 female complete the remaining work?

34. A and B invest in the ratio of 3 : 5. After 6 months, C joins the business by investing some amount. At the end of the year, the profit share of B and C are equal. Find initial investment of A is what percent of the initial investment of C.

Ans: 30%

35. Sum of ages of V and S is six years more than twice the age of D and Sum of ages of Ve & A is twice the age of D. If the average age of S & A is 25 years and average age of all four is 25 years, then find the difference between the age of V and D?

Ans: 2years

All The best for your Exam

Regards & Thanks

Team AB

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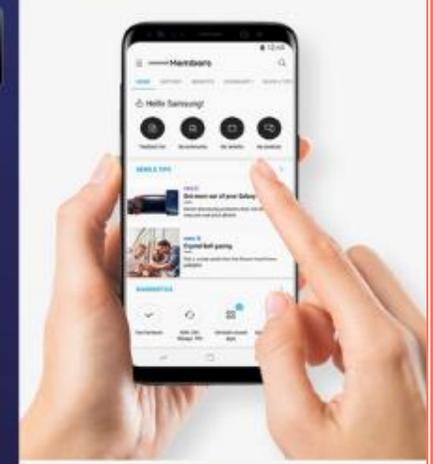
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