

# SSC SELECTION POST



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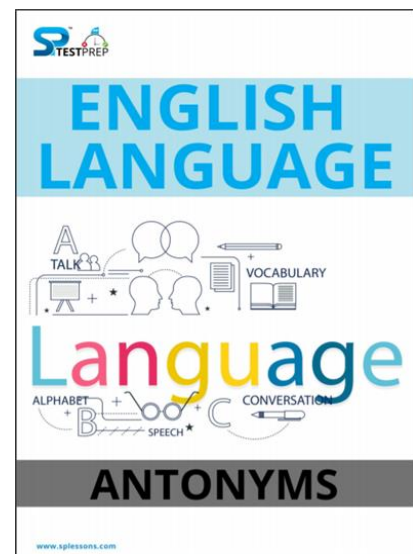
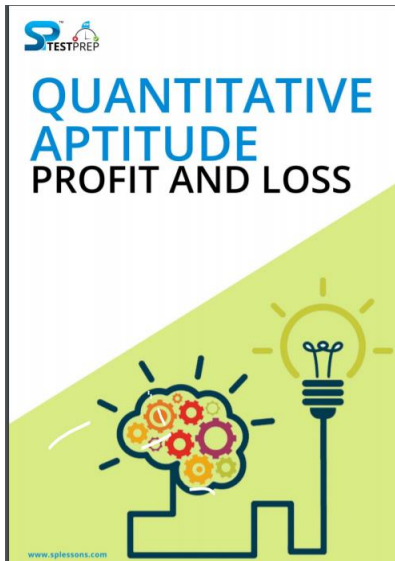
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## SSC Selection Post Quantitative Aptitude Important Questions



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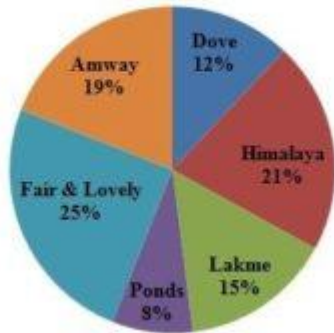
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## SSC Selection Post Quantitative Aptitude Important Questions

**Direction (1-5):** Study the following information carefully to answer the given Questions.

**Market Share of Cosmetics Company  
in 2013**



1. If the sales of Himalaya increased by 10% per year and if the sales of Fair & lovely is Rs.250 cr in 2013, what will be the sales of Himalaya in 2015?

- A. 260.5 cr
- B. 242.3 cr
- C. 254.1 cr
- D. 252 cr
- E. None of these

**Answer – C**

**Explanation:**

$$25\% = 250\text{cr}$$

$$100\% = 250 \times 100 / 25 = 1000 \text{ cr}$$

$$\text{Himalays } 21\% = 1000 \times 21 / 100 = 210 \text{ cr}$$

$$10\% \text{ increase every year} = 210 \times 110 / 100 \times 110 / 100 = 254.1 \text{ cr}$$

2. What will be the central angle of Amway, Ponds and lakme together?

- A. 161.2o
- B. 152.5o
- C. 150.1o
- D. 151.2o
- E. None of these

**Answer – D**

**Explanation:**

$$\text{Total} = 19 + 8 + 15 = 42$$





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$$\text{Angle} = 42 \times 360 / 100 = 151.2^\circ$$

**3. If the total sales of cosmetic product in the market is Rs.670cr/ what is the difference between the sales of Lakme and Dove?**

- A. 17.5 Cr
- B. 20.1 Cr
- C. 25.6 Cr
- D. 32.7 Cr
- E. None of these

**Answer** – B

**Explanation:**

$$100\% = 670\text{cr}$$

$$\text{Lakme} = 15 \times 670 / 100 = 100.5 \text{ Cr}$$

$$\text{Dove} = 12 \times 670 / 100 = 80.4 \text{ Cr}$$

$$\text{Diff} = 100.5 - 80.4 = 20.1 \text{ Cr}$$

**4. If the cosmetic have only 12% share of the total market products, what is the share of the Himalaya in the total market (in %)?**

- A. 2.52%
- B. 3.15%
- C. 4%
- D. 1.75%
- E. None of these

**Answer** – A

**Explanation:**

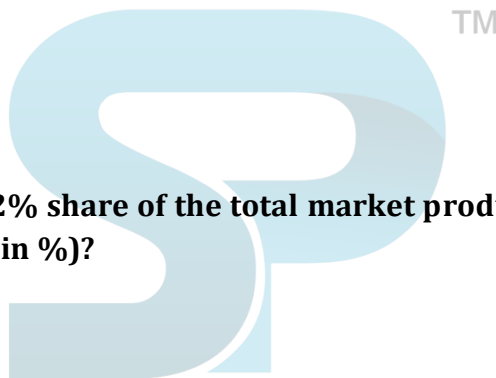
$$\text{Himalaya} = 21\%$$

$$\text{Total Market share} = 12\%$$

$$\text{Himalaya in Total Market} = 21 \times 12 / 100 = 2.52\%$$

**5. If the sales of Fair & Lovely is estimated as Rs.20.8cr, Find the sales of Ponds (in lakhs)?**

- A. Rs. 6,05,60,000
- B. Rs. 6,65,00,000
- C. Rs. 6,65,000





## SSC Selection Post Quantitative Aptitude Important Questions

- D. Rs. 6,65,60,000
- E. None of these

Answer – D

Explanation:

Fair & Lovely = 25%

25% = 20.8 cr

100% = 83.2 Cr

Ponds 8 % =  $83.2 * 8/100 = 6.656$

**6. 5, 12, ?, 41, 87, 214**

- A. 19
- B. 35
- C. 22
- D. 26
- E. None of these

Answer – C

Explanation:

$5+7 = 12$

$12+(7+3=10) = 22$

$22+(10+9=19) = 41$

$41+(19+27=46) = 87$

$87+(46+81=127) = 214$

**7. 14, ?, 13, 17.5, 21.75**

- A. 10
- B. 12
- C. 12.5
- D. 13.25
- E. None of these

Answer – B

Explanation:

$14/2 + 5 = 12$







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$$12/2 + 7 = 13$$

$$13/2 + 11 = 17.5$$

$$17.5/2 + 13 = 21.75$$

**8. Bharat borrowed Rs.180,000 on a condition that he had to pay 7.5% interest every year. He also agreed to pay the principal in equal annual instalments over 21 years. After a certain number of years, however, the rate of interest has been reduced to 7%. It is also known that at the end of the agreed period, he will have paid in all Rs.2,70,900 in interest. For how many years does he pay at the reduced interest rate?**

- A. 10 years
- B. 12 years
- C. 13 years
- D. 14 years
- E. None of the Above

**Answer - D**

**Explanation:**

x = interest paid at 7.5%

(21-x) years interest paid at 7%

$$((180000 * x * 7.5) / 100) + ((180000 * 7 * (21 - x)) / 100) = 270900$$

$$x = 7$$

21 - 7 = 14 years he paid at the reduced interest rate.

**9. A sum of rupees 3200 is compounded annually at the rate of 10 paisa per rupee per annum. Find the compound interest payable after 2 years.**

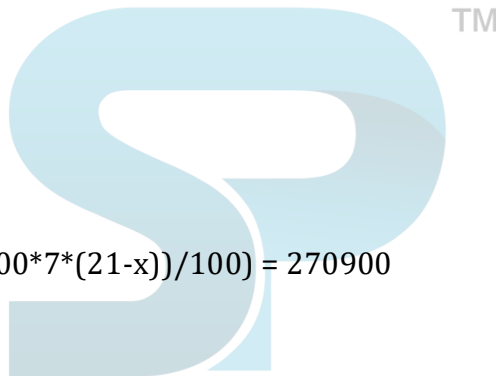
- A. 200
- B. 842
- C. 672
- D. 832
- E. None of these

**Answer - C**

**Explanation:**

Rate of interest is 10 paisa per rupee per annum.

So for 100 rupees it is 1000 paise i.e. 10 percent





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Now, CI =  $3200(1+10/100)^2 - 3200 = 672$

**10. A tradesman marks the price of his goods such that after allowing a discount of 25%, he earns a profit of 40%. What is the marked price of an article whose cost price is Rs.180?**

- A. 285
- B. 336
- C. 358
- D. 375
- E. 390

**Answer – B**

**Explanation:**

$$S.P = (100 + \text{profit}\%) * cp / 100 = 140 * 180 / 100 = 252$$

$$M.P - 25\% \text{ of } M.P = SP$$

$$X - 25/100 X = 252$$

$$X = 336$$

**11. Sriram purchased 40 dozen notebooks at Rs. 50 per dozen. He sold 10 dozens of it at 15% profit and the remaining 30 dozens at 25% profit. What is his percentage profit in the whole transaction?**

- A. 18.8%
- B. 20%
- C. 22.5%
- D. 25%
- E. 28.5%

**Answer – C**

**Explanation:**

$$C.P = 4 * 50 = 2000$$

$$S.P = 10 * 50 * 115 / 100 + 30 * 50 * 125 / 100 = 2450$$

$$\text{Profit} = 2450 - 2000 = 450$$

$$\text{Profit}\% = 450 / 2000 * 100 = 22.5$$

**12. Excluding stoppages, a train can travel with a speed of 60km/hr but with stoppages it can travel at an average 45km/hr. For how many minutes the train stops in one hour.**

- A. 10min





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- B. 12min
- C. 15min
- D. 18min
- E. None of these

Answer – C

Explanation:

Due to stoppages 15km less is travel by train so,

$$15 = 60*t, t = 15 \text{ minutes} - \text{train stops in one hour}$$

**13. Two trains are travelling towards each other. The distance between the trains initially is 400km. After some time they meet at a distance of 150 km from one end. Find the ratio of the speed of the trains.**

- A. 2:5
- B. 3:5
- C. 4:7
- D. 7:3
- E. 3:7

Answer – B

Explanation:

At some time T they meet each other so,

$$150/a = 250/b \text{ (a and b are the speeds of the train respectively)}$$

$$\text{So, } a:b = 3:5$$

**14. Karolin and Swaetha are partners in a business. Karolin invests Rs.35,000 for 6months and Swaetha invests Rs.40,000 for 8 months. Out of a profit of Rs.28,750, Karolin's share is**

- A. Rs.11,300
- B. Rs.11,392
- C. Rs.12,765
- D. Rs.10,450
- E. None of these

Answer - B

Explanation:

$$35,000*6 : 40000*8$$





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2100:3200

21:32

Karolin's share =  $21 \times 28750 / 53 = 11391.5 = 11392$

**15. Mohan and Suresh entered into a partnership investing Rs.10000 and Rs.8000 rep. After 3 months Udhay joined them with an investment of Rs.12000. What is the share of Suresh in a half yearly profit of Rs.7200?**

- A. Rs.4000
- B. Rs.3200
- C. Rs.2000
- D. Rs.2400
- E. None of these

Answer - D

Explanation:

$10000 \times 6 : 8000 \times 6 : 12000 \times 3$

$10 \times 6 : 8 \times 6 : 12 \times 3$

$60 : 48 : 36$

$5 : 4 : 3$

Suresh profit =  $7200 \times 4 / 12 = 2400$



**16. The average weight of 40 students in a class is 75 kg. By mistake the weights of two students are read as 74 kg and 66 kg respectively instead of 66 kg and 54 kg. Find the corrected average weight of the class**

- A. 73.50 kg
- B. 74.50 kg
- C. 75.50 kg
- D. 76.50 kg
- E. None of these

Answer - B

Explanation:

Weight of 40 students =  $40 \times 75$

new weight =  $40 \times 75 - 74 - 66 + 66 + 54 = 40 \times 75 - 20$

so new average =  $(40 \times 75 - 20) / 40 = 74.50$  kg



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**17. The average weight of 40 balls is 5 grams. When the weight of the basket is added to the weight of balls, the average increased by 0.5 grams. Find the weight of the basket.**

- A. 20.5 gm
- B. 22.5 gm
- C. 25.5 gm
- D. 28.5 gm
- E. None of these

**Answer – C**

**Explanation:**

$$(40 \times 5 + B) / 41 = 5.5 \text{ (B is the weight of basket)}$$

**18. A labourer was appointed by a contractor on the condition he would be paid Rs 150 for each day of his work but would be, fined a the rate of Rs 30 per day for his absent. After 20 days, the contractor paid the laborer's 2820. Find the number of days he worked:**

- A. 13 days
- B. 19 days
- C. 5 days
- D. 12 days
- E. None of these

**Answer – B**

**Explanation:**

Let the required number of days = x days

$$\text{So, } 150x - (20 - x)30 = 2820$$

$$x = 19 \text{ days}$$

**19. A can do a piece of work in 120 days and B can do it in 150 days. They work together for 20 days. Then A leaves and B continues the work. 12 days after that, C joins the work and the work is completed in 48 more days. In how many days C can do it alone?**

- A. 225
- B. 220
- C. 230
- D. 240
- E. None of these

**Answer – E**

**Explanation:**





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$$\text{A and B per day work} = \frac{1}{120} + \frac{1}{150} = \frac{27}{1800}$$

$$\text{A and B work in 20 days} = \frac{20 \times 27}{1800}$$

$$\text{B work in 12 days} = \frac{12}{150} = \frac{144}{1800}$$

$$\begin{aligned} \text{Remaining work} &= 1 - \left( \frac{540}{1800} + \frac{144}{1800} \right) \\ &= \frac{1116}{1800} \end{aligned}$$

$$\text{B and C, 1 day work} = \frac{1116}{1800 \times 48}$$

$$\begin{aligned} \text{C per day work} &= \frac{1116}{1800 \times 48} - \frac{1}{150} \\ &= \frac{540}{1800 \times 48} = \frac{1}{160} \end{aligned}$$

So no. of days by C to complete the work = 160

**20. This year, the sum of ages of the Suresh's family members is 78. Currently, there are 4 members namely viz Suresh, Rita, Deepa and Tarun. Suresh is 4 years older than Rita. Deepa is two years older than Tarun. If Suresh is 7 times as old as Tarun, how old is Deepa?**

- A. 5
- B. 7
- C. 8
- D. 9
- E. 6

Answer - B

Explanation:

$$S+R+D+T = 78 - (i)$$

$$S = R + 4 - (ii)$$

$$D = T + 2 - (iii)$$

$$S = 7T - (iv)$$

$$7T = R+4$$

$$R = 7T - 4$$

$$h+w+d+s = 78 - (i)$$

$$7T+7T-4+T+2+T = 78$$

$$16T = 80$$





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$$T = 5$$

$$d = T + 2 = 5 + 2 = 7$$

**21. The income of A, B, and C are in the ratio 3 : 4 : 7. If their incomes be changed such that the new income of A is 50% increased, 25% increased for B and 25% decrease for C. Find the ratio of their new incomes.**

- A. 18 : 40 : 23
- B. 17 : 12 : 21
- C. 18 : 20 : 21
- D. 28 : 20 : 21
- E. None of these

**Answer - C**

**Explanation:**

Previous ratio = 3 : 4 : 7

New ratio =  $(150/100) * 3 : (125/100) * 4 : (75/100) * 7$

**22. A, B and C divide Rs 4200 among themselves in the ratio 7 : 8 : 6. If Rs 200 is added to each of their shares, what is the new ratio in which they will receive the money?**

- A. 9 : 8 : 7
- B. 8 : 9 : 7
- C. 8 : 9 : 8
- D. 9 : 10 : 8
- E. 7 : 9 : 8

**Answer - B**

**Explanation:**

A gets =  $[7/(7+8+6)] * 4200 = 1400$

B gets =  $[8/(7+8+6)] * 4200 = 1600$

C gets =  $[6/(7+8+6)] * 4200 = 1200$

Rs 200 added to each share, so new ratio =

1400+200: 1600+200: 1200+200

1600: 1800: 1400

**23. If the area of a square is equal to the area of that rectangle whose width is double of the one side of the square then the ratio of the length to the breadth of the rectangle will be?**



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- A. 1 : 2
- B. 1 : 4
- C. 1 : 6
- D. 1 : 8
- E. None of the Above

Answer – B

Explanation:

$$b = 2a$$

$$a = b/2$$

Area of square =  $b^2/4$  = Area of rectangle

$$l * b = b^2/4 \Rightarrow l = b/4$$

$$l / b = (b/4)/b \Rightarrow 1:4$$

**24. In a rectangle the ratio of the length and breadth is 3:2. If each of the length and breadth is increased by 3m their ratio becomes 10:7. The area of the original rectangle in  $m^2$  is?**

- A. 384
- B. 486
- C. 346
- D. 476
- E. None of the Above

Answer – B

Explanation:

$$[3x + 3 / 2x + 3] = 10/7$$

$$x = 9$$

Area of the original rectangle =  $3x * 2x = 6x^2$

Area of the original rectangle =  $6 * 81 = 486m^2$

**25. Swati went shopping to buy a watch with some money. She selected a watch, which is marked Rs.400 higher price than the money she had. But shopkeeper gave two successive discounts of 10% and 15% respectively on the marked price of the watch. Then she could buy that watch and also another watch worth Rs.540 with all the money she had. Then what is the marked price on the first watch?**

- A. Rs.3060
- B. Rs.3600



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- C. Rs.4000
- D. Rs.4200
- E. Cannot be determined

Answer – C

Explanation:

$$(x+400)*90/100*85/100+540 =x$$

$$x = 3600$$

$$MP = 3600+400 = 4000$$







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