

Quiz Date: 26th April 2020

Directions (1-5): Deepak, Dharam and Shivam invested in partnership for one year. Ratio of investment of Deepak, Dharam and Shivam for first 6 months, next four month and for remaining time is 3:2:3, 2:5:3 and 4:3:3 respectively. Amount invested by Deepak in first 6 months, Dharam in next four month and by Shivam in remaining time is Rs.1500, Rs. 2000 and Rs. 900 respectively. Total difference between profit share of Dharam and Shivam together and Deepak and Dharam together is Rs. 450.

Q1. Total investment of Deepak is approximately what percent of total investment of Shivam in one year?

- (a) 96%
- (b) 95%
- (c) 97%
- (d) 92%
- (e) 99%

Q2. What is profit share of Dharam after one year?

- (a) Rs.7110
- (b) Rs. 6570
- (c) Rs. 7020
- (d) Rs. 6560
- (e) Rs. 7220

Q3. What is the ratio of investment made by Deepak for 4 months to investment made by Shivam for 2 months?

- (a) 5:7
- (b) 6:7
- (c) 4:5
- (d) 8:9
- (e) 3:2

Q4. What is the difference between investment made by Dharam for 6 and 4 months together and total investment made by Shivam?

- (a) Rs. 900
- (b) Rs. 600
- (c) Rs. 800
- (d) Rs. 400
- (e) Rs. 500

Q5. Investment made by Deepak for 2 months is how much percent more or less than investment made by Shivam for 6 months?

- (a) 20% more
- (b) 25% less

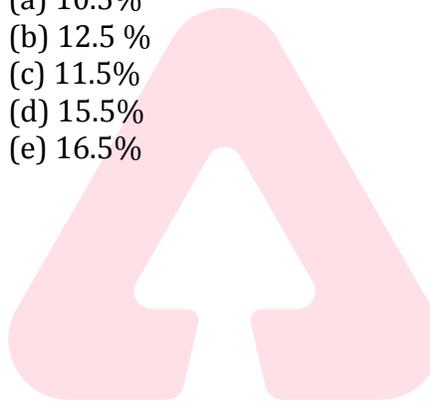
- (c) 25% more
- (d) 20% less
- (e) None of these.

Direction (6 – 10): Read the data carefully and answer the questions.

A survey conducted on 6400 people in a town about which mobile network gives high speed data. 25% of the total town population selected only Airtel network. 15% of the total town population selected only Vodafone network. 7% of the total town population selected only Idea network. 12% of the total population of town selected only Aircel network. 16% of the total town population selected only Jio network. 6% of the total population of town selected Airtel & Vodafone only. 8% of the total town population selected Airtel, Vodafone & Jio only. 5% of the total population of town selected Vodafone, Aircel & Jio only and 6% of the total population of town selected all the five networks.

Q6. Total population of town who selected only Idea, only Aircel & only Jio network together are what percent less than total population of town who selected only Airtel & only Vodafone together?

- (a) 10.5%
- (b) 12.5 %
- (c) 11.5%
- (d) 15.5%
- (e) 16.5%



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Q7. Find total population of town who selected at most two mobile networks?

- (a) 5164
- (b) 5162
- (c) 5184
- (d) 5158
- (e) 5188

Q8. Find total population of town who selected at least two mobile networks?

- (a) 1200
- (b) 1400
- (c) 1800
- (d) 1600
- (e) 2000

Q9. Find ratio between total population of town who selected all Vodafone, Aircel & Jio only to total population of town selected all the five networks?

- (a) 6 : 5
- (b) 5 : 4
- (c) 5 : 7
- (d) 5 : 9
- (e) 5 : 6

Q10. Total population who selected Jio network only is what percent more than total population who selected all Airtel, Vodafone & Jio only?

- (a) 120%
- (b) 140%
- (c) 160%
- (d) 100%
- (e) 96%

Directions (11-15): What will come in place of the “?” in the following questions.

Q11. $24\% \text{ of } 6700 + 47\% \text{ of } 8500 = ?$

- (a) 5460
- (b) 5420
- (c) 5320
- (d) 5630
- (e) 5603

Q12. $28\% \text{ of } 550 - 80\% \text{ of } 390 = ? - \frac{13}{15} \text{ of } 210$

- (a) 108
- (b) 48
- (c) 24
- (d) 70
- (e) 158

Q13. $1200 \div 15 \times 25 + 437 = ?$

- (a) 2437
- (b) 2380
- (c) 2925
- (d) 2800
- (e) 2756

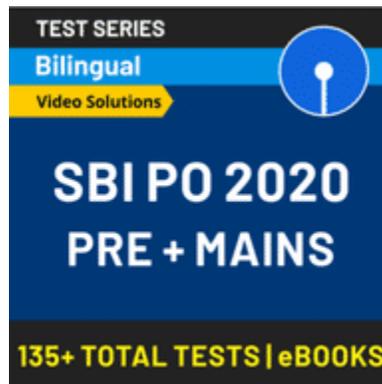
Q14. $30\% \text{ of } 510 + 35\% \text{ of } 850 - 34\% \text{ of } 850 = ?$

- (a) 186.25
- (b) 210.5
- (c) 160.50
- (d) 161.5

(e) 180

Q15. $(14)^3 - (7)^2 + (6)^3 = ?$

- (a) 2752
 (b) 2921
 (c) 2820
 (d) 2911
 (e) 3512



Solutions

S1. Ans(c)

Sol. Total investment of Deepak = $(1500 + 800 + 1200) = \text{Rs. } 3500$

Total investment of Shivam = $(1500 + 1200 + 900) = \text{Rs. } 3600$

Required percentage = $\frac{3500}{3600} \times 100 \approx 97\%$

S2. Ans(a)

Sol. profit of Dharam after one year = $79 \times 90 = \text{Rs. } 7110$

S3. Ans(d)

Sol. required ratio = $800 : 900$
 $= 8 : 9$

S4. Ans(b)

Sol. required difference = $(1500 + 1200 + 900) - (1000 + 2000) = \text{Rs. } 600$

S5. Ans(d)

Sol. Required percentage = $\frac{1500-1200}{1500} \times 100 = 20\% \text{ less}$

S(6 - 10) :

Total town population selected only Airtel network = $6400 \times \frac{25}{100} = 1600$

Total town population selected only Vodafone network = $6400 \times \frac{15}{100} = 960$

Total town population selected Idea network only = $6400 \times \frac{7}{100} = 448$

Total population of town selected Aircel network only = $6400 \times \frac{12}{100} = 768$

$$\text{Total town population selected Jio network only} = 6400 \times \frac{16}{100} = 1024$$

$$\text{Total population of town selected Airtel \& Vodafone only} = 6400 \times \frac{6}{100} = 384$$

$$\text{Total town population selected Airtel, Vodafone \& Jio only} = 6400 \times \frac{8}{100} = 512$$

$$\text{Total population of town selected Vodafone, Airtel \& Jio only} = 6400 \times \frac{5}{100} = 320$$

$$\text{Total population of town selected all the five networks} = 6400 \times \frac{6}{100} = 384$$

Total town population selected only Airtel network	1600
Total town population selected only Vodafone network	960
Total town population selected Idea network only	448
Total population of town selected Airtel network only	768
Total town population selected Jio network only	1024
Total population of town selected both Airtel \& Vodafone only	384
Total town population selected all Airtel, Vodafone \& Jio only	512
Total population of town selected all Vodafone, Airtel \& Jio only	320
Total population of town selected all the five networks	384

S6. Ans (b)

Sol.

Total population of town who selected only Idea, only Airtel \& only Jio network together

$$= 448 + 768 + 1024$$

$$= 2240$$

Total population of town who selected only Airtel \& only Vodafone together

$$= 1600 + 960$$

$$= 2560$$

$$\begin{aligned} \text{Required percentage} &= \frac{2560 - 2240}{2560} \times 100 \\ &= 12.5\% \end{aligned}$$

S7. Ans (c)

Sol.

Total population of town selected at most two mobile networks

$$= 1600 + 960 + 448 + 768 + 1024 + 384$$

$$= 5184$$

S8. Ans(d)

Sol.

Total population of town selected at least two mobile networks

$$= 384 + 512 + 320 + 384$$

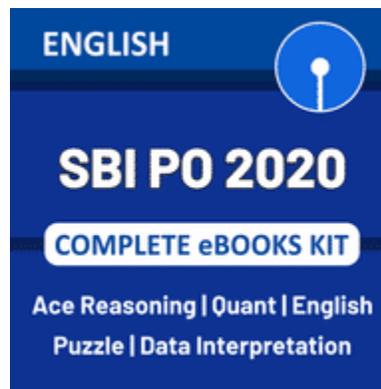
$$= 1600$$

S9. Ans(e)

Sol.

$$\text{Required ratio} = \frac{320}{384}$$

$$= 5 : 6$$



S10. Ans (d)

Sol.

$$\text{Required percentage} = \frac{1024-512}{512} \times 100$$

$$= 100\%$$

S11. Ans.(e)

Sol.

$$? = 24\% \text{ of } 6700 + 47\% \text{ of } 8500$$

$$= \frac{24}{100} \times 6700 + \frac{47}{100} \times 8500$$

$$= 24 \times 67 + 47 \times 85$$

$$= 1608 + 3995 = 5603$$

S12. Ans.(c)

Sol.

$$? \approx \frac{28 \times 550}{100} - \frac{80 \times 390}{100} + \frac{13 \times 210}{15}$$

$$? = 154 - 312 + 182$$

$$? = 24$$

S13. Ans.(a)

Sol.

$$? = 1200 \div 15 \times 25 + 437$$

$$? = \frac{1200}{15} \times 25 + 437$$

$$? = 2000 + 437$$

$$? = 2437$$

S14. Ans.(d)

Sol.

$$30\% \text{ of } 510 + 35\% \text{ of } 850 - 34\% \text{ of } 850 = ?$$

$$? = \frac{30 \times 510}{100} + \frac{35 \times 850}{100} - \frac{34 \times 850}{100}$$

$$? = 153 + 297.5 - 289$$

$$? = 161.5$$

S15. Ans.(d)

Sol.

$$(14)^3 - (7)^2 + (6)^3 = ?$$

$$? = 2744 - 49 + 216$$

$$? = 2911$$



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