

Quiz Date: 24th May 2020

Directions (1-5): - Table given below gives information about Cost price, Selling price, profit percent and discount percentage of four article A, B, C and D. Some data is missing, calculate the data and answer the following questions.

article	Cost price	Selling price	Profit %	Discount %
A	500	-	20%	25%
B	-	750	25%	$16\frac{2}{3}\%$
C	400	450	-	-
D	-	-	10%	45%

Q1. If cost price of article D is 10% more than cost price of article A, find Market price of article D?

- (a) Rs. 1000
- (b) Rs. 1100
- (c) Rs. 900
- (d) Rs. 950
- (e) Rs. 1050

Q2. Average of market price of article A and cost price of article B is how much percent more than cost price of article C?

- (a) 75%
- (b) 80%
- (c) 60%
- (d) 90%
- (e) 95%

Q3. If discount percentage is twice of profit percentage for article C, find ratio of cost price of article A to market price of article C?

- (a) 2:3
- (b) 1:2
- (c) 2:5
- (d) 5:6
- (e) None of these.

Q4. Selling price of article C is what percent of market price of article B?

- (a) 100%
- (b) 75%
- (c) 50%
- (d) 25%

(e) 60%

Q5. If for article D difference between profit earned and discount given is Rs. 440, find selling price of the D?

- (a) 550
 (b) 650
 (c) 308
 (d) 450
 (e) 605



Direction (6-10): Given below table shows total number of employee working in five different cities branches of 'Microsoft' and percentage distribution of employee in five different departments. Some data are missing which have to calculate according to given information. Read the data carefully and answer the questions.

City branches	Total employee	Operation	IT	CONTENT	SUPPORT	HR
Delhi	1200	36%	24%	12%	—	8%
Gurgaon	1600	42%	28%	16%	10%	—
Mumbai	1800	38%	22%	14%	16%	—
Bangalore	2400	—	26%	—	—	6%
Pune	2000	40%	—	16%	14%	—

Q6. If ratio of total employee working in operation, CONTENT & SUPPORT is 4 : 3 : 1 from Bangalore, then find total number of employee working in operation department from city Bangalore, Gurgaon & Delhi together?

- (a) 1940
 (b) 1920
 (c) 1960
 (d) 1980
 (e) 1840

Q7. If ratio between total employee working in IT department & HR department from Pune is 4 : 1, then find average number of employee working in HR department from Delhi & Pune?

- (a) 104
- (b) 102
- (c) 110
- (d) 108
- (e) 118

Q8. If ratio of total employee working in operation, CONTENT & SUPPORT 4 : 3 : 1 from Bangalore, then find total number of employee working in SUPPORT department from all the five cities?

- (a) 1164
- (b) 1184
- (c) 1172
- (d) 1176
- (e) 1178

Q9. If ratio between employee working in IT department from Bangalore and Pune is 78 : 55 , then find total number of employee working in IT department from Pune, Mumbai & Delhi together?

- (a) 995
- (b) 998
- (c) 997
- (d) 991
- (e) 1124

Q10. Total employee working in HR department from Mumbai is what percent more than total employee working in same department from Gurgaon?

- (a) 181.25%
- (b) 187.25%
- (c) 185.25%
- (d) 188.25%
- (e) 184.25%

Solutions

S1. Ans(b)

Sol. Cost price of article D = $500 \times \frac{110}{100} = \text{Rs. } 550$

Market price of article D = $550 \times \frac{110}{100} \times \frac{100}{55}$
= Rs. 1100

S2. Ans(a)

Sol. Market price of article A = $500 \times \frac{120}{100} \times \frac{100}{75} = \text{Rs. } 800$

Cost price of article B = $\frac{750}{125} \times 100 = \text{Rs. } 600$

Average price = $\frac{800+600}{2} = \text{Rs. } 700$

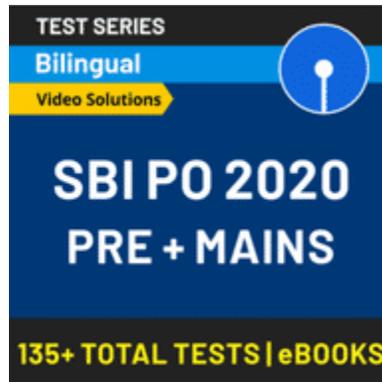
$$\text{Required percentage} = \frac{700-400}{400} \times 100 = 75\%$$

S3. Ans(d)

$$\begin{aligned} \text{Sol. Discount\% for article C} &= 2 \times \frac{450-400}{400} \times 100 \\ &= 25\% \end{aligned}$$

$$\text{Market price of article C} = \frac{450}{75} \times 100 = \text{Rs. } 600$$

$$\begin{aligned} \text{Required ratio} &= 500:600 \\ &= 5:6 \end{aligned}$$



S4. Ans(c)

$$\text{Sol. Market price of article B} = \frac{750}{250} \times 300 = \text{Rs. } 900$$

$$\text{Required percentage} = \frac{450}{900} \times 100 = 50\%$$

S5. Ans(e)

$$\text{Sol. let cost price of article D} = \text{Rs. } 100x$$

$$\text{Selling price of article D} = 100x \times \frac{110}{100} = \text{Rs. } 110x$$

$$\text{Market price of article D} = \frac{110x}{55} \times 100 = \text{Rs. } 200x$$

ATQ

$$(200x - 110x) - (110x - 100x) = 440$$

$$300x - 220x = 440$$

$$80x = 440$$

$$x = \frac{440}{80}$$

$$x = \frac{11}{2}$$

$$\text{So, } 110x = 110 \times \frac{11}{2}$$

$$110x = \text{Rs. } 605$$

S6. Ans(b)

Sol.

$$\begin{aligned} \text{Total employee working in operation from Bangalore} &= 2400 \times \frac{100-(26+6)}{100} \times \frac{4}{8} \\ &= 816 \end{aligned}$$

$$\text{Required sum} = 816 + 1600 \times \frac{42}{100} + 1200 \times \frac{36}{100}$$

$$= 816 + 672 + 432$$

$$= 1920$$

S7. Ans(d)

Sol.

Total number of employee working in HR department from Pune

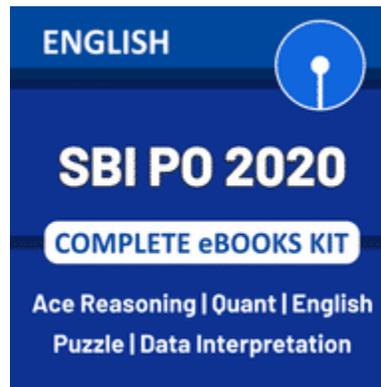
$$= 2000 \times \frac{100 - (40 + 16 + 14)}{100} \times \frac{1}{5}$$

$$= 120$$

Total number of employee working in HR department from Delhi = $1200 \times \frac{8}{100} = 96$

$$\text{Required average} = \frac{120 + 96}{2}$$

$$= 108$$



S8. Ans(c)

Sol.

Total employee working in support department from Bangalore = $2400 \times \frac{100 - (26 + 6)}{100} \times \frac{1}{8}$

$$= 204$$

$$\text{Required sum} = 204 + 12 \times 20 + 16 \times 10 + 18 \times 16 + 20 \times 14$$

$$= 204 + 240 + 160 + 288 + 280$$

$$= 1172$$

S9. Ans(e)

Sol.

Total employee working in IT department from Bangalore = $2400 \times \frac{26}{100} = 624$

Total employee working in IT department from Pune = $624 \times \frac{55}{78} = 440$

$$\text{Required sum} = 440 + 18 \times 22 + 12 \times 24$$

$$= 1124$$

S10. Ans(a)

Sol.

Total employee working in HR department from Mumbai = $1800 \times \frac{100 - (38 + 22 + 14 + 16)}{100} = 180$

Total employee working in HR department from Gurgaon = $1600 \times \frac{100 - (42 + 28 + 16 + 10)}{100} = 64$

$$\text{Required percentage} = \frac{180 - 64}{64} \times 100$$

= 181.25%

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