

Quiz Date: 17th June 2020

Directions (1-5): - Study the paragraph carefully and answer the following questions.

Adda247 publications sold three books i.e. **Quant, English and reasoning** on three different stores i.e. **A, B and C**.

Quant, reasoning and English book are sold at 20% discount by store A, C and B respectively. **Quant, reasoning and English** book are sold at 15% discount by store C, B and A respectively. Discount percent given on Quant book by store B is half of discount percent given on reasoning book by store C. M.R.P. for each book is same at every store.

Q1. Store A sold reasoning book at Rs. 880, find M.R.P of the book if discount given by store A on reasoning book is 20% more than discount given by store B on quant book?

- (a) Rs. 1200
- (b) Rs. 1000
- (c) Rs. 960
- (d) Rs. 1240
- (e) None of these.

Q2. If total selling price of Quant book for store A and B together is Rs. 510. Find M.R.P. of Quant for store B?

- (a) Rs.240
- (b) Rs.270
- (c) Rs.280
- (d) Rs.300
- (e) Rs.600

Q3. If market price of a reasoning book was 50% more than cost price of the book for store C. Find profit percent on selling a reasoning book by store C?

- (a) 20%
- (b) 15%
- (c) 25%
- (d) 10%
- (e) 12.5%

Q4. What is the ratio of average discount given on quant book by store A, reasoning book by store C and English book by store B to market price of a book?

- (a) 5:4
- (b) 2:3
- (c) 3:2
- (d) 1:5
- (e) 4:5

Q5. If an English book is sold at Rs. 170 by store A, the find selling price of reasoning book for store C?

- (a) Rs. 160

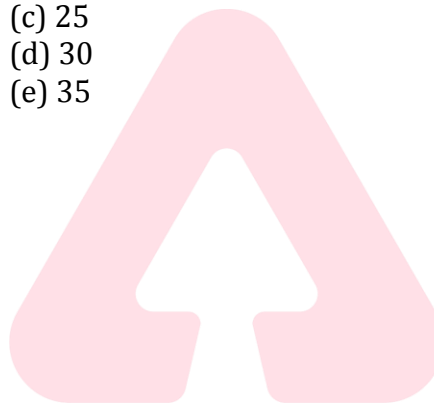
- (b) Rs. 170
- (c) Rs. 135
- (d) Rs. 105
- (e) None of these.

Directions (6-10): Study the following information carefully and answer the given question.

In a class, certain number of marbles (3 colours) are distributed among students. It is found that number of students who got red coloured marbles is 37.5% of total students and number of students who got all the three colours of marbles is $\frac{1}{20}$ of total number of students. 52.5% of total students got black marbles and 57.5% got green coloured marbles. Number of students who got both red and black marbles but not green is double the number of students who got all three colours and half of the number of students who got black and green but not red marbles. Number of students who got all three colours of marbles is 10.

Q6. How many students got red and green marbles but not black?

- (a) 15
- (b) 20
- (c) 25
- (d) 30
- (e) 35



Q7. Number of students who got exactly two colour of marbles is

- (a) 55
- (b) 60
- (c) 67
- (d) 70
- (e) 75

Q8. Number of students who got at least two colours of marbles is

- (a) 105
- (b) 100
- (c) 95
- (d) 90
- (e) 85

Q9. What is the ratio of number of students who got only red to number of students who got only green marbles?

- (a) 4 : 5
- (b) 3 : 2
- (c) 2 : 5
- (d) 3 : 5
- (e) 1 : 2

Q10. What percentage of total students got exactly one colour of marbles?

- (a) 55%
- (b) 57.5%
- (c) 60%
- (d) 62.5%
- (e) 75%

Directions (11-15) : Find the missing term in the following number series.

Q11. 113, 130, 164, 215, ?, 368

- (a) 293
- (b) 273
- (c) 283
- (d) 327
- (e) 382

Q12. 705, 728, 774, 843, 935, 1050, ?

- (a) 1190
- (b) 1180
- (c) 1185
- (d) 1188
- (e) 1818

Q13. 16, 16, 40, 160, 880, ?

- (a) 7480
- (b) 6160
- (c) 4400
- (d) 5720
- (e) 6600

Q14. 60.5, 72, 84.5, 98, 112.5, ?

- (a) 125
- (b) 122
- (c) 126
- (d) 128
- (e) 132

Q15. 4, 2, 2, 3, 6, ?

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- (a) 12
 (b) 15
 (c) 24
 (d) 18
 (e) 21

Solutions

S (1-5): Discount percent given on Quant book by store B = $\frac{1}{2} \times 20\% = 10\%$

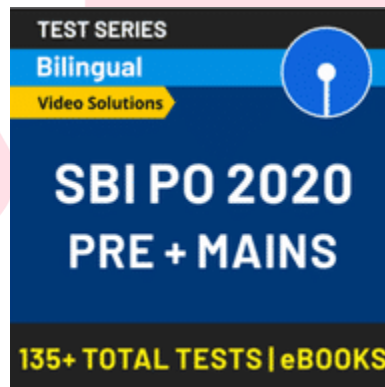
Table shows discount percent given by three different stores on three different books.

Store and book name	A	B	C
Quant	20%	10%	15%
Reasoning		15%	20%
English	15%	20%	

S1. Ans(b)

Sol. Discount given by store A on reasoning book = $10 \times \frac{120}{100} = 12\%$

M.R.P. of book = $880 \times \frac{100}{88} = \text{Rs. } 1000$



S2. Ans(d)

Sol. let M.R.P. of each book = Rs.100a

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$$100a \times \frac{80}{100} + 100a \times \frac{90}{100} = 510$$

$$170a = 510$$

$$a = 3$$

So, $100a = \text{Rs. } 300$

S3. Ans(a)

Sol. let cost price of a reasoning book for store C = Rs. 100y

Market price of a book for store C = $100y \times \frac{150}{100} = \text{Rs. } 150y$

Selling price of book for store C = $150y \times \frac{80}{100} = \text{Rs. } 120y$

$$\text{Required profit percent} = \frac{120y-100y}{100y} \times 100 = 20\%$$

S4. Ans(d)

Sol. let M.R.P. of each book = Rs.100c

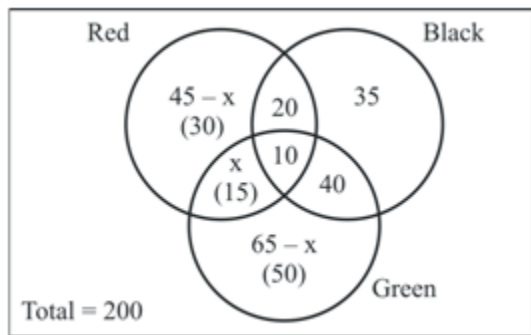
$$\begin{aligned} \text{Required ratio} &= \frac{1}{3} \times \left(100c \times \frac{20}{100} + 100c \times \frac{20}{100} + 100c \times \frac{20}{100} \right) : 100c \\ &= 20 : 100 \\ &= 1 : 5 \end{aligned}$$

S5. Ans(a)

$$\begin{aligned} \text{Sol. Selling price of reasoning book for store C} &= \frac{170}{100-15} \times (100 - 20) \\ &= \text{Rs. } 160 \end{aligned}$$

S6. Ans (a)

Sol. no. of students having red and green balls= $x=15$



S7. Ans (e)

Sol. required no. = 20+15+40=75

S8. Ans (e)

Sol. required no. = 20+15+40+10=85

S9. Ans (d)

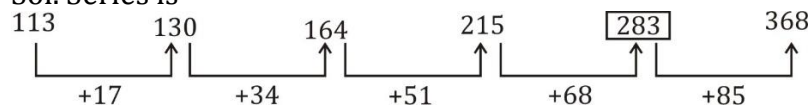
Sol. required ratio=3:5

S10. Ans (b)

$$\text{Sol. } \frac{115}{200} \times 100 = 57.5\%$$

S11. Ans.(c)

Sol. Series is



S12. Ans.(d)

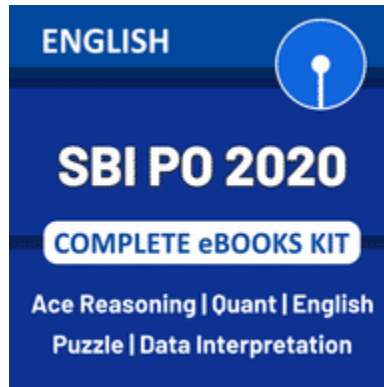
Sol. Pattern is $+23 \times 1, +23 \times 2, +23 \times 3, +23 \times 4, +23 \times 5$

$$\begin{aligned}\therefore ? &= 1050 + 23 \times 6 \\ &= 1188\end{aligned}$$

S13. Ans.(b)

Sol. Pattern is $\times 1, \times 2.5, \times 4, \times 5.5, \times 7, 8.5$

$$\begin{aligned}\therefore ? &= 880 \times 7 \\ &= 6160\end{aligned}$$



S14. Ans.(d)

Sol. Pattern is $+11.5, +12.5, +13.5, +14.5, +15.5$

$$\begin{aligned}\therefore ? &= 112.5 + 15.5 \\ &= 128\end{aligned}$$

S15. Ans.(b)

Sol. Pattern is $\times 0.5, \times 1, \times 1.5, \times 2, \times 2.5$

$$\begin{aligned}\therefore ? &= 6 \times 2.5 \\ &= 15\end{aligned}$$

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