Quiz Date: 10th August 2020

**Direction (1-5):** Data given below shows total number of students in three schools i.e, A, B and C.

Total number of students in school A, B and C are 800, 1200 and 900 respectively p<sub>1</sub>, p<sub>2</sub>, p<sub>3</sub> are the number of boys in school A, B and C respectively

q<sub>1</sub>, q<sub>2</sub>, q<sub>3</sub> are the number of girls in school A, B and C respectively

Total number of mentors in school A  $\rightarrow$  20% of boys in school A

Total number of mentors in school B  $\rightarrow$  30% of girls in school B

Total number of mentors in school C  $\rightarrow$  10% of boys in school C

 $p_1: q_1 \rightarrow 3: 1$  $p_2: q_2 \rightarrow 5: 3$ 

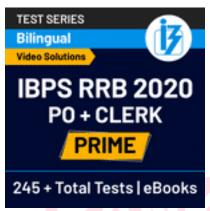
 $p_3:q_3\rightarrow 2:1$ 

- Q1.Total number of boys in school 'B' is what percent more than total number of girls in school 'C'?
- (a) 25%
- (b) 150%
- (c) 125%
- (d) 250%
- (e) 60%

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- Q2.Total number of boys in school 'A' is how much more than total number of girls in school 'B'?
- (a) 200
- (b) 100
- (c) 250
- (d) 300
- (e) 150
- Q3. Number of mentors in school 'B' is what percent of number of mentors in school 'C'.
- (a) 225%
- (b) 125%
- (c) 100%
- (d) 200%
- (e) 250%
- Q4.In school 'D', total number of girls is 25% more than girls in school 'A' while total number of boys is 40% less than number of boys in school 'B'. Find total number of students in school 'D'.
- (a) 600
- (b) 1380

- (c)700
- (d) 1020
- (e) 1300
- Q5. Find the ratio between total number of girls in school 'B' to total number of boys in school 'C'.
- (a) 4:5
- (b) 4:3
- (c) 5:4
- (d) 3:4
- (e) 1:2



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

Each of two electronic stores A & B sold five items i.e. mobile, laptop, AC, fan & printer. Total number of items sold by both the store is 4200 and ratio between total items sold by store A & store B is 3: 4. Total mobile sold by store A is  $16\frac{2}{3}\%$  more than total fan sold by that store, while total AC sold by store A is 80 less than total fan sold by store A. Total laptop sold by store A is  $77\frac{7}{9}\%$  more than total fan sold by store A and total printer sold by store A is 540less than total laptop sold by store A. Total fan sold by store B is 120 more than total fan sold by store A, while total laptop sold by store B is  $12\frac{1}{2}\%$  more than total laptop sold by store A. Ratio of total mobile, AC & printer sold by store B is 26:23:11 respectively.

Q6. Total laptop sold by store B is what percent less than total mobile & fan together sold by store A?

- (a)  $5\frac{9}{13}\%$ (b)  $7\frac{9}{13}\%$ (c)  $9\frac{9}{13}\%$ (d)  $11\frac{9}{13}\%$ (e)  $13\frac{9}{13}\%$

- Q7. Find average number of fan sold by store A & B?
- (a) 480

- (b) 400
- (c)440
- (d) 420
- (e) 520
- Q8. Find difference between total number of laptop, AC & printer sold by store A and same items together sold by store B?
- (a) 360
- (b) 320
- (c)380
- (d) 300
- (e) 400
- Q9. Total printer sold by store B is what percent more than that of total printer sold by store A?
- (a) 75%
- (b) 115%
- (c) 125%
- (d) 120%
- (e) 130%

- Q10. Find the ratio between total laptop & fan sold by store A to total mobile & fan sold by store B?
- (a) 2:1
- (b) 3:1
- (c) 4:1
- (d) 1:1
- (e) 2:3

**Directions (11-15):** Read the given information carefully and answer the following questions.

The number of male passengers who boarded Delhi-Bangalore Rajdhani express is 175% of the number of female passengers who boarded the same train. The ratio of the number of passengers who like Tea, Coffee and Lassi is 61:67:37. Each passenger likes only one item out of three.

The number of male passengers who like Tea is  $28\frac{4}{7}\%$  more than the male passengers who like Coffee. Ratio of the number of male passengers who like Lassi and the male passengers who like Tea is 5:9. Number of female passengers who like Coffee is 320 and is 531/3% of the number of total female passengers. The ratio of number of female passengers who like Tea and Lassi is 4:3.

Q11. Find the difference between the male passengers who like Lassi and female passengers who like Tea.

- (a) 100
- (b) 90
- (c) 80
- (d) 70
- (e) 60

Q12. The number of female passengers who like Tea and Lassi together is how much percent more or less than the number of male passengers who like coffee?

- (a) 20%
- (b) 25%
- (c) 40%
- (d) 30%
- (e) 22½%

Q13. Find the average of the number of passengers who like Tea and Coffee together?

- (a) 620
- (b) 630
- (c) 640
- (d) 650
- (e) 660



Q14. Find the ratio of the total passengers who like Tea and Lassi together to the total number of male passengers?

- (a) 12:13
- (b) 4:5
- (c) 14:15
- (d) 2:3
- (e) 7:8



- Q15. Total number of male passengers who like Coffee and female passengers who like Tea together are what percent of the total number of passengers?
- (a)  $31\frac{10}{11}\%$
- (b)  $30\frac{10}{11}\%$
- (c)  $33\frac{1}{11}\%$
- (d)  $35\frac{2}{11}\%$
- (e)  $30\frac{11}{11}\%$

**Solutions** 

Sol (1-5)

Total number of boys in school A =  $\frac{3}{1} \times 800 = 600$ 

Total number of girls in school A =  $\frac{1}{4} \times 800 = 200$ 

Total number of boys in school B =  $\frac{5}{2}$  × 1200 = 750

Total number of girls in school B =  $\frac{3}{2} \times 1200 = 450$ 

Total number of boys in school  $C = \frac{2}{3} \times 900 = 600$ 

Total number of girls in school  $C = \frac{1}{3} \times 900 = 300$ 

Total number of mentors in school A =  $\frac{20}{100} \times 600 = 120$ 

Total number of mentors in school B =  $\frac{30}{100} \times 450 = 135$ 

Total number of mentors in School C =  $\frac{10}{100} \times 600 = 60$ 

S1. Ans.(b)

Sol.

Total number of boys in school B =  $\frac{5}{8} \times 1200 = 750$ 

Total number of girls in school  $C = \frac{1}{3} \times 900 = 300$ 

Required 
$$\% = \frac{750-300}{300} \times 100 = 150\%$$

S2. Ans.(e)

Sol.

Required difference = 600 - 450 = 150

S3. Ans.(a)

Sol.

Required  $\% = \frac{135}{60} \times 100 = 225\%$ 





S4. Ans.(c)

Sol.

Total number of girls in school 'D' =  $\frac{125}{100} \times 200 = 250$ Total number of boys in school 'D' =  $\frac{60}{100} \times 750 = 450$ 

Total number of students in school 'D' = 250 + 450 = 700

S5. Ans.(d)

Sol.

Required ratio = 
$$\frac{450}{600} = \frac{3}{4}$$

### S(6 - 10):

Total items sold by store A =  $4200 \times \frac{3}{7} = 1800$ 

Total items sold by store B =  $4200 \times \frac{4}{7} = 2400$ 

Let total fan sold by store A = x

So, total mobile sold by store A =  $\frac{7x}{6}$ 

Total AC sold by store A = (x - 80)

Total laptop sold by store A =  $x + x \times \frac{7}{9}$ 

$$=\frac{16x}{9}$$

Total printer sold by store A =  $\frac{16x}{9}$  – 540

$$x + \frac{7x}{6} + (x - 80) + \frac{16x}{9} + \left(\frac{16x}{9} - 540\right) = 1800$$

$$\frac{18x + 21x + 18x - 1440 + 32x + 32x - 9720}{18} = 1800$$

$$\frac{8x+21x+18x-1440+32x+32x-9720}{18} = 1800$$

$$121x - 11160 = 32400$$

$$121x = 43560$$

$$x = 360$$

Total mobile sold by store A =  $360 \times \frac{7}{6} = 420$ 

Total AC sold by store A = (360 - 80) = 280

Total laptop sold by store A =  $\frac{3}{9}$ 60  $\times \frac{16}{9}$  = 640

Total printer sold by store A = 640 - 540 = 100

Total fan sold by store B = 360 + 120 = 480

Total laptop sold by store B =  $640 \times \frac{9}{8} = 720$ 

Let total mobile, AC & printer sold by store B is 26y, 23y and 11y respectively

$$26y + 23y + 11y = (2400 - 480 - 720)$$

$$60y = 1200$$

$$y = 20$$

Total mobile sold by store B =  $26 \times 20 = 520$ 

Total AC sold by store B =  $23 \times 20 = 460$ 

Total printer sold by store B =  $11 \times 20 = 220$ 

Items	Store 'A'	Store 'B'	
Mobile	420	520	
Laptop	640	720	
AC	280	460	

Fan	360	480
Printer	100	220
Total	1800	2400

S6. Ans(b)

Sol

Total mobile & fan sold by store A = 420 + 360 = 780  
Required percentage = 
$$\frac{780-720}{780} \times 100$$
  
=  $\frac{60}{780} \times 100$   
=  $7\frac{9}{13}\%$ 

S7. Ans(d)

Sol.

Required average = 
$$\frac{360+480}{2}$$
  
=  $\frac{840}{2}$  = 420

S8. Ans(c)

Sol.

Total number of laptop, AC & printer sold by store A = 640 + 280 + 100 = 1020Total number of laptop, AC & printer sold by store B = 720 + 460 + 220 = 1400Required difference = 1400 - 1020 = 380

S9. Ans(d)

Sol.

Required percentage = 
$$\frac{220-100}{100} \times 100 = 120\%$$

S10. Ans(d)

Sol.

Total laptop & fan sold by store A = 640 + 360 = 1000

Total mobile & fan sold by store B = 520 + 480 = 1000

Required ratio = 
$$\frac{1000}{1000}$$
$$= 1:1$$

### S (11-15):

Let the number of female passengers be 100x.

Then, the number of male passengers

$$= 100x \times \frac{175}{100} = 175x$$

The number of female passengers who like Coffee

$$100x \times \frac{160}{3 \times 100} = 320$$

$$x = 6$$

Number of total female passengers =  $6 \times 100 = 600$ 

Number of total male passengers =  $175 \times 6 = 1050$ 

Number of passengers who like Tea

$$=\frac{1650\times61}{165}=610$$

Number of passengers who like coffee

$$=\frac{1650\times67}{165}=670$$

Number of passengers who like Lassi = 1650 - (610 + 670) = 370

Number of female who like Tea =  $(600 - 320) \times \frac{4}{7} = 160$ 

Number of male who like Lassi = 600 - (320 + 160) = 120

Let the number of male passengers who like coffee be 7y

Then, number of male passengers who like tea

$$= 7y \times \frac{9}{7} = 9y$$

Number of male passengers who like Lassi

$$=\frac{9y}{9} \times 5 = 5y$$

ATQ,

$$7y+9y+5y=1050$$

y = 50

Passengers	Tea	Coffee	Lassi	Total
Male	450	350	250	1050
Female	160	320	120	600
Total	610	670	370	1650



# S11. Ans.(b)

Sol.

Required difference = 250 - 160 = 90

### S12. Ans.(a)

Sol.

Total no. of female passengers who like Tea and Lassi together = 160 + 120 = 280 Required % =  $\frac{350-280}{350}$  × 100 = 20%

Required 
$$\% = \frac{350-280}{350} \times 100 = 20\%$$

### S13. Ans.(c)

Sol.

Required avg. = 
$$\frac{610+670}{2} = \frac{1280}{2} = 640$$

### S14. Ans.(c)

Required ratio = 
$$\frac{610+370}{1050} = \frac{980}{1050} = \frac{14}{15}$$

Sol.

Required% = 
$$\frac{350+160}{1650} \times 100$$
  
=  $\frac{510}{1650} \times 100\%$   
=  $30\frac{10}{11}\%$ 

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