Quiz Date: 8th September 2020

Directions (1-5): Table given below shows total number of employees (in % out of total employees) working in given companies. Study the data carefully and answer the following questions

	Out of total employee's percentage of employees is given according to their ages		
	A	B	C
30 and above	50%	70%	60%
40 and above	40%	30%	40%
50 and above	20%	20%	30%

Total employees in A = 1200
Total employees in B = 800
Total employees in C = 900

Q1. Total number of employees whose age is 30 and above in company 'C' is what percent more than total number of employees who age is 40 and above in company 'A'.
(a) 50%
(b) 37.5%
(c) 25%
(d) 12.5%
(e) 10%

Q2. Total number of persons in company 'B' whose age is 30 and above but less than 40 is how much more than total number of person in company 'A' whose age is 40 and above but less than 50.
(a) 60
(b) 80
(c) 100
(d) 120
(e) 140

Q3.Find the ratio between total number of employees in company 'C' whose age is 30 and above but less than 50 to total number of employees in company 'A' whose age is 30 and above but less than 50.
(a) 9 : 8
(b) 1 : 2
(c) 3 : 4
(d) 4 : 3
(e) 1 : 4

Q4. Total number of person in company 'B' whose age is 40 and above is what percent of the total number of person in company 'A' whose age is 50 and above.
(a) 50%
(b) 0%
(c) 200%
(d) 100%
(e) 150%

Q5.Total number of person in company 'A' whose age is less than 40 is how much more/less than total number of person in company 'B' whose age is less than 50.
(a) 80
(b) 160
(c) 40
(d) 120
(e) 200

Directions (6-10): Study the table carefully & answer the following questions. Table given below shows the percentage of players who scored runs in each tournament.
Total number of Players = 600
Note → All the 600 players played all the matches in each tournament.

Runs	Tournament A	Tournament B	Tournament C
More than 60	25%	25%	20%
More than 40	35%	30%	30%
More than 20	80%	60%	70%

Q6. Find the ratio between no. of players who scored more than 60 in tournament B to the no. of players who scored less than or equal to 20 in tournament B & C together?
(a) 7 : 15
(b) 5 : 14
(c) 4 : 15
(d) 2 : 5
(e) 3 : 5

Q7. No. of players who scored more than 40 in tournament A are how much more or less than total no. of players who scored less than or equal to 40 in tournament C?
(a) 180
(b) 300
(c) 260
(d) 240
(e) 210

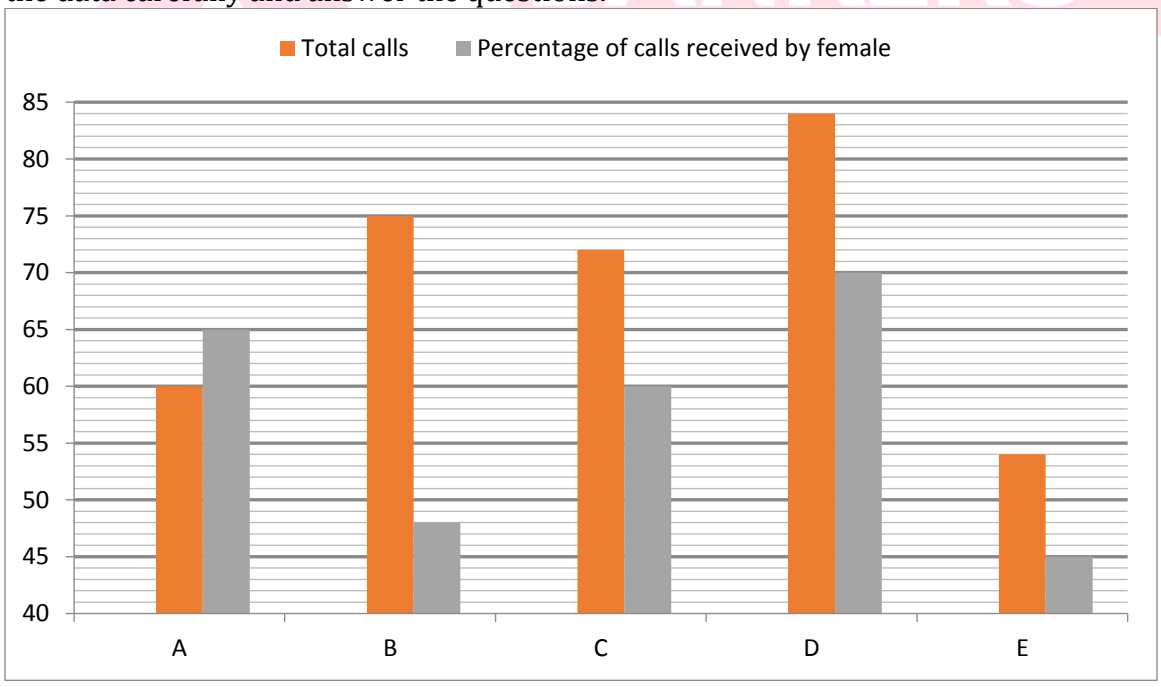
Q8. No. of players who scored less than or equal to 40 in tournament B is what percent more or less than the no. of players who scored more than 60 in tournament A & B together?
(a) 65%

(b) 50%
(c) 40%
(d) 55%
(e) 45%

Q9. Find the average number of players in all three tournaments who scored more than 20?
(a) 360
(b) 450
(c) 320
(d) 380
(e) 420

Q10. What is total no. of players who scored more than 60 in all the three tournaments?
(a) 420
(b) 540
(c) 560
(d) 480
(e) 470

Directions (11 – 15): Given below bar graph shows total number of calls (in hundred) received by five mobile network companies and percentage of calls received by female. Read the data carefully and answer the questions.



Q11. Find the sum of total calls received by male in company A & D together and calls received by female in company B & E together?
(a) 9900
(b) 10880
(c) 11260
(d) 10650

(e) 9580

Q12. Find difference between total calls received by male in company C & E together and total calls received by female in company D?
(a) 40
(b) 20
(c) 50
(d) 30
(e) 60

Q13. Find ratio between total calls received by female in company A to total calls received by male in company B?
(a) 2 : 1
(b) 3: 1
(c) 4 : 1
(d) 5 : 1
(e) 1: 1

Q14. Total calls received in company F is 60 % more than total calls received by female in company A. If out of total calls received in company F, 75% calls received by female, then find average number of calls received by male in company F & D?
(a) 2020
(b) 2060
(c) 2040
(d) 2080
(e) 2100

Q15. Find total number of calls received by male in company A, C & E together?
(a) 7940
(b) 7930
(c) 7910
(d) 7980
(e) 7950

Solutions

S1. Ans.(d)
Sol.
Total number of employees whose age is 30 and above in company 'C' = $\frac{60}{100} \times 900 = 540$
Total number of employees whose age is 40 and above in company 'A' = $\frac{40}{100} \times 1200 = 480$
Required % = $\frac{540-480}{480} \times 100 = 12.5\%$

S2. Ans.(b)
Sol.
Total number of persons in company 'B' whose age is 30 and above but less than 40
$= \frac{70-30}{100} \times 800 = 40 \times 8 = 320$
Total number of person in company 'A' whose age is 40 and above but less than 50
$= \frac{40-20}{100} \times 1200 = 20 \times 12 = 240$
Required difference = $320 - 240 = 80$

S3. Ans.(c)
Sol.
Required Ratio = $\frac{(60-30)\times 900}{(50-20)\times 1200} = \frac{3}{4}$

S4. Ans.(d)
Sol.
Total number of person in company 'B' whose age is 40 and above = $\frac{30}{100} \times 800 = 240$
Total number of person in company 'A' whose age is 50 and above = $\frac{20}{100} \times 1200 = 240$
Required % = $\frac{240}{240} \times 100 = 100\%$

S5. Ans.(a)
Sol.
Total number of person in company 'A' whose age is less than 40 = $\frac{100-40}{100} \times 1200 = 720$
Total number of person in company 'B' whose age is less than 50 = $\frac{100-20}{100} \times 800 = 640$
Required difference = $720 - 640 = 80$

S6. Ans (b)
Sol. Required Ratio = $\frac{\frac{25}{100}\times 600}{[\frac{40}{100}+\frac{30}{100}]\times 600}$ = $\frac{25}{70}$ = 5 : 14

S7. Ans (e)
Sol. Required difference = $\left(\frac{70}{100}\right) \times 600 - \left(\frac{35}{100}\right) \times 600$ = 420-210 = 210

S8. Ans (c)
Sol. Required percentage
$= \frac{70-50}{50} \times 100$
$= \frac{20}{50} \times 100$ = 40%

S9. Ans (e)
Sol. Required average
$= \frac{1}{3}\left[\frac{80}{100} + \frac{60}{100} + \frac{70}{100}\right] \times 600$
= 420

S10. Ans (a)
Sol. Required total
$= \left[\frac{25}{100} + \frac{25}{100} + \frac{20}{100}\right] \times 600$
$= 70 \times 6 = 420$

S11. Ans(d)
Sol.
Total calls received by male in company A & D
$= 6000 \times \frac{35}{100} + 8400 \times \frac{30}{100}$
$= 2100 + 2520$
$= 4620$
Total calls received by female in company B & E
$= 7500 \times \frac{48}{100} + 5400 \times \frac{45}{100}$
$= 6030$
Required sum = 6030 + 4620
= 10650

S12. Ans(d)
Sol.
Total calls received by male in company C & E
$= 7200 \times \frac{40}{100} + 5400 \times \frac{55}{100}$
$= 5850$
Total class received by female in company D
$= 8400 \times \frac{70}{100}$
$= 5880$
Required difference = $5880 - 5850 = 30$

S13. Ans(e)
Sol.
Total calls received by female in company A
$= 6000 \times \frac{65}{100}$
$= 3900$
Total calls received by male in company B
$= 7500 \times \frac{52}{100}$
$= 3900$
Required ratio = $\frac{3900}{3900}$
$= 1 : 1$

S14. Ans(c)
Sol.

Total calls received in company F = $6000 \times \frac{65}{100} \times \frac{160}{100} = 6240$

Total calls received by male in company F = $6240 \times \frac{25}{100} = 1560$

Total calls received by male in company D = $8400 \times \frac{30}{100} = 2520$

Required average = $\frac{1560+2520}{2}$

$= \frac{4080}{2}$

$= 2040$

S15. Ans(e)

Sol.

Total number of calls received by male in company A, C & E

$= 6000 \times \frac{35}{100} + 7200 \times \frac{40}{100} + 5400 \times \frac{55}{100}$

$= 2100 + 2880 + 2970$

$= 7950$