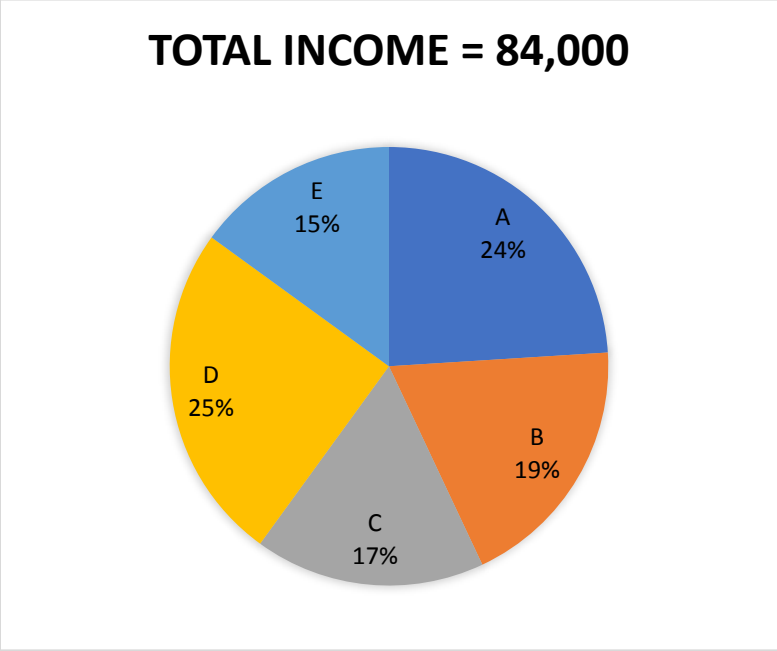
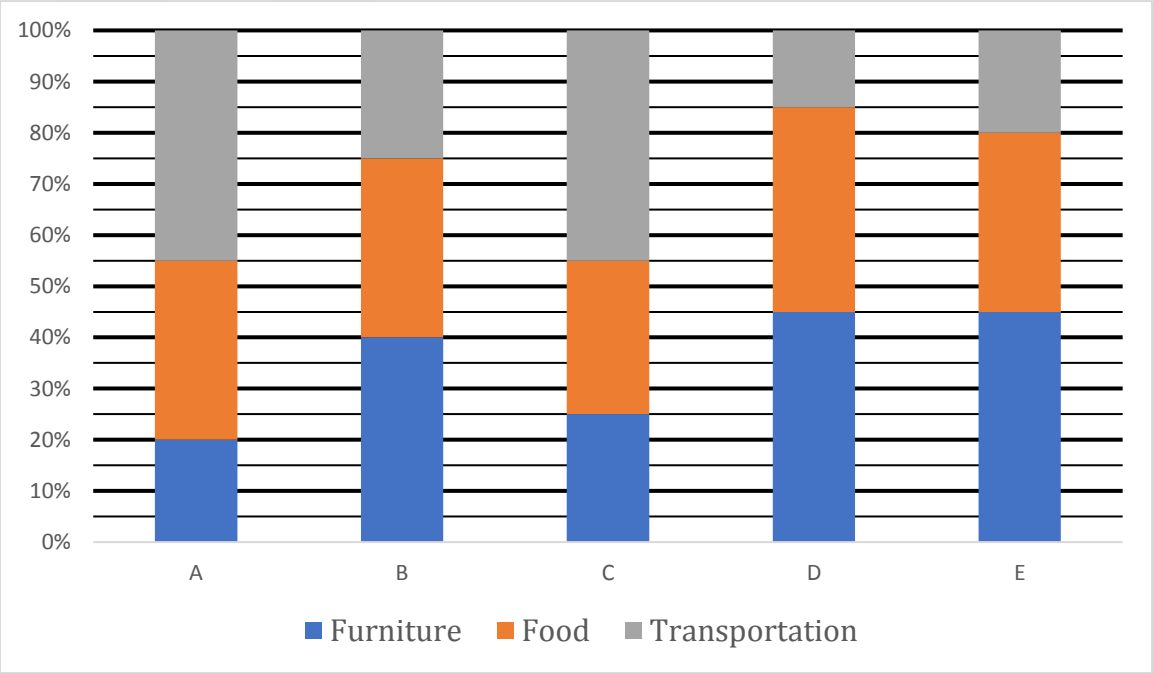
Quiz Date: 8th June 2020

Directions (1-5): Pie-chart given bellows shows the income of five different persons and bar graph shows the percentage distribution of their income on different things. Study the question carefully and answer them.





Q1. Who among the following spend maximum amount on food?
(a) D
(b) E
(c) B

(d) C
(e) A

Q2. Amount spend by 'E' on furniture is what percent more than amount spend by 'D' on Transportation?
(a) 70%
(b) 45%
(c) 80%
(d) 65%
(e) 60%

Q3. Find the average amount spend by A, B and C on furniture?
(a) 4622
(b) 4626
(c) 4262
(d) 4266
(e) 4662

Q4. 'D' buy only three type of food X, Y and Z and amount spend on buying X, Y and Z is in the ratio 5 : 7 : 8. What is the difference between amount spend on buying Z type food to amount spend on buying X type food.
(a) 2520
(b) 1680
(c) 8400
(d) 1260
(e) 2100

Q5. Find the ratio of amount spend by 'A' and 'B' together on food to the amount spend by 'C' and 'D' together on furniture?
(a) 295 : 277
(b) 277 : 295
(c) 310 : 301
(d) 301 : 305
(e) 301 : 310

Directions (6-10): What should come in place of question mark (?) in the following number series?

Q6. 2, 5, 23, 143, 1151, ?
(a) 11520
(b) 11519
(c) 11517
(d) 9215
(e) 13823

Q7. 8, 9, 20, 63, ?, 1285, 7716
(a) 384
(b) 254
(c) 256
(d) 192
(e) 320

Q8. 15, 34, 13, 30, 11, ?
(a) 26
(b) 15
(c) 42
(d) 29
(e) 28

Q9. 6, 5, 7, 12.5, 27, ?
(a) 83
(b) 69.5
(c) 56
(d) 70.5
(e) 96.5

Q10. 64, 77, 66, 73, 68, ?
(a) 75
(b) 72
(c) 67
(d) 69
(e) 66

Directions (11-15): Study the following information carefully and answer the question given below it.
Out of the 15,000 candidates eligible for an Officer's post in a Public Sector Bank, 450 candidates have prior experience of working in Public Sector Banks in rural areas only. 25% of the total number of candidates have prior experience of working in Public Sector Banks in urban areas only. 12% of the total number of candidates have prior experience of working in Private Sector Banks in urban areas only. 2% of the total number of candidates have prior Experience of working in Private Sector banks in rural areas only. 3,600 candidates have

worked in both Public and Private Sector Banks in urban areas only. 600 candidates have worked in both Public and private Sector Banks in rural areas only. The remaining candidates have no prior experience of working in the Banking industry.

Q11. Total no of candidates having prior experience of working in rural areas is what percent of total no of candidates having experience of working in urban areas? (round off to 2 decimal places)
(a) 13.75%
(b) 13.25%
(c) 14.25%
(d) 15.75%
(e) 14.75%

Q12. What percent of total number of candidates have prior experience of working in Public Sector Banks ?
(a) 83%
(b) 56%
(c) 67%
(d) 71%
(e) None of these

Q13. What is ratio of the candidates who have a prior experience of working in Public Sector Banks in rural areas only to the candidates who have a prior experience of working in Private Sector Banks in rural areas only?
(a) 4 : 3
(b) 3 : 2
(c) 2 : 3
(d) 3 : 4
(e) None of these

Q14. Candidates who have worked in Private Sector Banks in urban areas is what percent less than the number of candidates who have worked in public sector banks in urban areas?
(a) 28.53%
(b) 28.73%
(c) 24.43%
(d) 26.73%

(e) 26.53%

Q15. If 37% of inexperienced candidates are post graduate, then find the ratio between total number of experienced candidates to the number of inexperienced candidates who are not postgraduate?
(a) 27:100
(b) 100:27
(c) 100:63
(d) 63:100
(e) None of these

Solutions

S1. Ans.(a)
Sol.
Amount spend by 'A' on food = $84000 \times \frac{24}{100} \times \frac{35}{100} = 7056$
Amount spend by 'B' on food = $84000 \times \frac{19}{100} \times \frac{35}{100} = 5586$
Amount spend by 'C' on food = $84000 \times \frac{17}{100} \times \frac{30}{100} = 4284$
Amount spend by 'D' on food = $84000 \times \frac{25}{100} \times \frac{40}{100} = 8400$
Amount spend by 'E' on food = $84000 \times \frac{15}{100} \times \frac{35}{100} = 4410$
Alternate,
By seeing the chart and graph it can be easily concluded that 'D' spend maximum amount on food as he has maximum income among five persons and he spend maximum on food as compare to others

S2. Ans.(c)
Sol.
Amount spend by 'E' on furniture = $84000 \times \frac{15}{100} \times \frac{45}{100}$
= 5670
Amount spend by 'D' on transportation = $84000 \times \frac{25}{100} \times \frac{15}{100}$
= 3150
$Required\ \% = \frac{5670 - 3150}{3150} \times 100$
= 80%

S3. Ans.(e)
Sol.
Required average = $\frac{1}{3} \times 84{,}000 \left[\frac{24}{100} \times \frac{20}{100} + \frac{19}{100} \times \frac{40}{100} + \frac{17}{100} \times \frac{25}{100}\right]$
$= \frac{28000}{10000}[480 + 760 + 425]$
= 2.8 (1665) = 4662

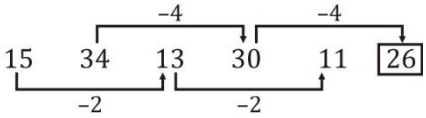
S4. Ans.(d)
Sol.
Required value $= 84000 \times \frac{25}{100} \times \frac{(8-5)}{20} \times \frac{40}{100}$
$= 1260$

S5. Ans.(e)
Sol.
Amount spend by A & B on food $= 84000 \times \left[\frac{24}{100} \times \frac{35}{100} + \frac{19}{100} \times \frac{35}{100}\right]$
$= 8.4\ [840 + 665]$
$= 12642$
Amount spend by C & D on furniture $= 84000 \left[\frac{17}{100} \times \frac{25}{100} + \frac{25}{100} \times \frac{45}{100}\right]$
$= 8.4\ [1550]$
$= 13020$
Required ratio $= \frac{12642}{13020} = \frac{301}{310}$

S6. Ans.(b)
Sol.
Pattern is ×2+1, ×4+3, ×6+5, ×8+7, ×10+9
∴ ? = 1151 × 10 + 9
= 11519

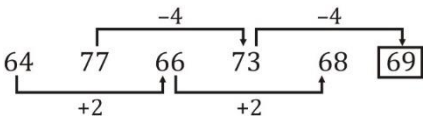
S7. Ans.(c)
Sol.
Pattern is ×1+1, ×2+2, ×3+3, ×4+4, ×5+5, ...
∴ ? = 63 × 4 + 4
= 256

S8. Ans.(a)
Sol.
Series is



S9. Ans.(b)
Sol.
Pattern is ×0.5+2, ×1+2, ×1.5+2, ×2+2, ×2.5+2
∴ ? = 27 × 2.5 + 2
= 69.5

S10. Ans.(d)
Sol.
Series is



S (11-15)
Total Candidates = 15000
No. of candidates having experience in
Public sector bank (rural) = 450
Public sector bank (urban) $= \frac{25}{100} \times 15000 = 3750$
Private sector bank (urban) $= \frac{12}{100} \times 15000 = 1800$
Private sector bank (rural) $= \frac{2}{100} \times 15000 = 300$
Public and Private sector bank (urban) = 3600
Public and Private sector bank (rural) = 600
Candidates having no. experience $= 15000 - (450 + 3750 + 1800 + 300 + 3600 + 600) = 4500$

S11. Ans.(e)
Sol.
Candidates having experience in rural areas $= 450 + 300 + 600 = 1350$
Candidates having experience in urban areas $= 3600 + 3750 + 1800 = 9150$
Desired percentage $= \frac{1350}{9150} \times 100 = 14.75\ \%$

S12. Ans.(b)
Sol.
Required percentage $= \frac{(450+3750+3600+600)}{15000} \times 100 = 56\%$

S13. Ans.(b)
Sol.
Required Ratio $= \frac{450}{300} = 3 : 2$

S14. Ans.(e)
Sol.
Candidates with experience in Private sector (urban) $= 1800 + 3600 = 5400$

Public sector (urban) $= 3600 + 3750 = 7350$
Required percentage $= \frac{7350-5400}{7350} \times 100 = 26.53\%$

S15. Ans.(b)
Sol.
Candidates having no. prior experience = 4500
Inexperienced candidates who are not post graduate $= \frac{(100-37)}{100} \times 4500 = 2835$
Total experienced candidates = 10500
Ratio $= \frac{10500}{2835} = 100 : 27$