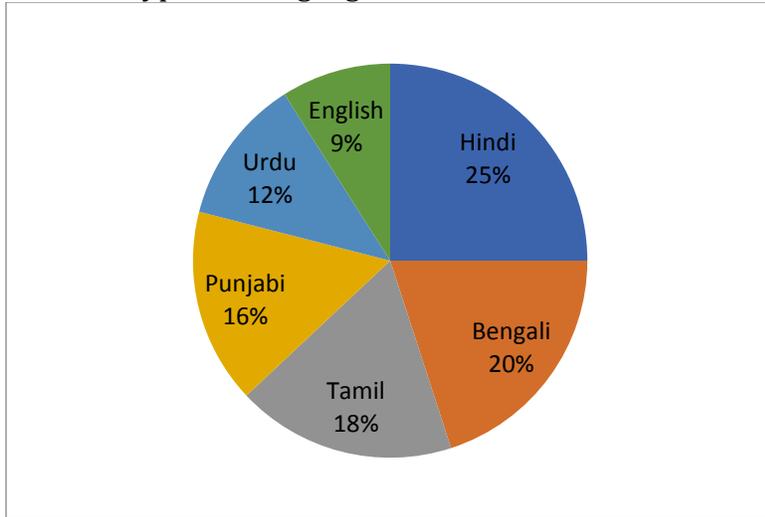


Quiz Date: 12th March 2020

Directions (1-5): Pie chart shows the percentage distribution of people who likes to speak different types of Languages.



The table shows the ratio of male to female above and below 25 years who likes to speak different types of Languages.

Note: Consider no person has exactly 25 years age.

	Below 25 years	Above 25 years
	Male : Female	Male : Female
Hindi	8 : 5	9 : 7
Bengali	4 : 3	5 : 4
Tamil	5 : 6	7 : 3
Punjabi	11 : 12	13 : 12
Urdu	3 : 4	5 : 6
English	5 : 4	3 : 5

Q1. Total number of people who speak Tamil is 48 lakh. Total number of people comprising male above 25 years who speaks English and females below 25 years who speaks English is 10 lakh, then find the total number of people who speaks English for people below 25 yr.

- (a) 8 L
- (b) 10 L
- (c) 9.5 L
- (d) 15 L
- (e) 14.4 L

Q2. If the total number of female below 25 years who speaks Bengali and male above 25 years whose speaks Bengali is 9.6 lakh and 14 lakh respectively, then what is the total number of people who speaks Hindi.

- (a) 55.5 lakh
- (b) 64.6 lakh

- (c) 72.8 lakh
- (d) 59.5 lakh
- (e) 57.2 lakh

Q3. If people below 25 years who speaks Punjabi are 23,000 and difference between people below 25 years and above 25 years who speaks Punjabi is 11,600 then, find the difference between total number of people who speaks Urdu and Hindi.

- (a) 43244
- (b) 46254
- (c) 27950
- (d) 50130
- (e) 45240

Q4. If total number of people who speaks Hindi is 1 lakh then what is the difference of people whose speaks Urdu and Punjabi.

- (a) 100000
- (b) 25000
- (c) 50000
- (d) 16000
- (e) 20000

Q5. Total number of people who speaks Bengali is 80,000 then find the number of people above 25 years who speaks Urdu if number of people above 25 years who speaks Urdu and people below 25 year who speaks English are same.

- (a) 30,000
- (b) 20,000
- (c) 25,000
- (d) Can't be determined
- (e) 32,000

Directions (6-10): Find the approximate value of given questions.

Q6. $(?)^2 + 17.93\% \text{ of } 4249.9 + 14.9\% \text{ of } 440 = (9.9)^3$

- (a) 19
- (b) 13
- (c) 8
- (d) 21
- (e) 23

Q7. $\frac{575.9}{?} + 274.87\% \text{ of } 495.8 + \sqrt{255.9} = 25.009\% \text{ of } 5583.9$

- (a) 24
- (b) 28
- (c) 48
- (d) 44

Q8. $\sqrt[3]{6858.9} \times 35.8 + ? = (28.97)^2 - 40.93$

- (a) 126
- (b) 108
- (c) 122
- (d) 116
- (e) 136



Q9. ? % of $5199.87 - (37.93)^2 + (15.9)^2 = (35.91)^2 - 39.9$

- (a) 37
- (b) 40
- (c) 56
- (d) 60
- (e) 47

Q10. 156.02% of 450 + 133.01% of 599.98 = 375.02% of ?

- (a) 300
- (b) 425
- (c) 475
- (d) 400
- (e) 525

Directions (11-15): Study the following information given below carefully and answer the related questions asked.

In a company, there are four departments namely Blog, content, support & Video. Out of total employees, $\frac{100}{3}\%$ are working in blog team and 25% of remaining are working in support team. Number of employees working in content team are 20% more than that in Blog team. 24 employees are working in video team. 40% of employees working in blog team are from Delhi NCR. 60% of employees working in support team are from North-East. 75% of total employees working in content department come from East of India. The employees working in Video department are either from Haryana or from Delhi NCR, and they are in the ratio of 3:5.

No employee working in content and support team belongs to Delhi NCR.

Q11. Total number of employees working in blog team are what percent more or less than the total number of employees working in video team?

- (a) $133\frac{1}{3}\%$
- (b) $233\frac{1}{3}\%$
- (c) $222\frac{1}{3}\%$

- (d) $233\frac{2}{3}\%$
(e) None of these

Q12. What is the ratio of employees who comes from Delhi NCR to the total employees working in content team?

- (a) 47 : 96
(b) 96 : 47
(c) 1 : 2
(d) 9 : 16
(e) 16 : 9

Q13. What is the average of total number of employees working in Blog team, support team and Video team together?

- (a) 36
(b) 52
(c) 48
(d) 28
(e) 44

Q14. If $12\frac{1}{2}\%$ employee of content team, $16\frac{2}{3}\%$ employees of video team and 20% employees of support team are over age for banking exams then find the number of such employees who cannot be a banker.

- (a) 28
(b) 26
(c) 20
(d) 24
(e) 18

Q15. Total number of employees coming from Delhi NCR who works in blog team and number of employees coming from North-East who works in support team together are how many (in number) more or less than the number of employees coming from East region of India, working in content team?

- (a) 18
(b) 16
(c) 14
(d) 12
(e) 20

Directions (16-20): What would come in place of question mark (?) in the following number series ?

Q16. 260 232 204 176 148 120 ?

- (a) 76
(b) 78
(c) 82
(d) 89
(e) 92

Q17. 13 18 15 27 17 43 19 ?

- (a) 68
- (b) 58
- (c) 45
- (d) 78
- (e) 73

Q18. 2 8 22 46 ? 132

- (a) 80
- (b) 76
- (c) 82
- (d) 78
- (e) 102

Q19. 19, 25, 45, 87, 159, ?

- (a) 254
- (b) 279
- (c) 284
- (d) 269
- (e) 259



Q20. 83, 124, 206, 370, 698, ?

- (a) 1344
- (b) 1324
- (c) 1364
- (d) 1334
- (e) None of these

Solutions

S1. Ans.(e)

Sol.

Total people who speaks English = $\frac{48}{18} \times 9 = 24$ lakh

Let total people below 25 yr who speaks English = x

Then, $(24 - x) \frac{3}{8} + \frac{4}{9}x = 10$

$$x = 14.4 \text{ L}$$

S2. Ans.(d)

Sol.

$$\begin{aligned} \text{Total number of people below 25 years who speaks Bengali} &= \frac{9.6}{3} \times 7 \\ &= 3.2 \times 7 \\ &= 22.4 \text{ L} \end{aligned}$$

$$\begin{aligned} \text{Total number of people above 25 years who speaks Bengali} &= \frac{14}{5} \times 9 \\ &= 2.8 \times 9 \\ &= 25.2 \text{ L} \end{aligned}$$

$$\text{Total people who speaks Hindi} = \frac{(22.4+25.2)}{20} \times 25 = 59.5 \text{ Lakh}$$

S3. Ans.(c)

Sol.

Let total people who speaks Punjabi food = x

Then,

$$23000 - (x - 23000) = 11600$$

$$46000 - x = 11600$$

$$x = 46000 - 11600$$

$$= 34400$$

$$\text{Required difference} = \frac{34400}{16} \times 13 = 27950$$

S4. Ans.(d)

Sol.

$$\text{Total people in the town} = \frac{1}{25} \times 100 = 4 \text{ L}$$

$$\text{Required difference} = \frac{4}{100} \times 4 = 0.16 \text{ L}$$

S5. Ans.(d)

Sol. we can't determine these values individually.

S6. Ans.(b)

Sol.

$$(?)^2 + \frac{18}{100} \times 4250 + \frac{15}{100} \times 440 \approx (10)^3$$

$$(?)^2 \approx 1000 - 831$$

$$(?)^2 \approx 169$$

$$? \approx 13$$

S7. Ans.(e)

Sol.

$$\frac{576}{?} + \frac{275}{100} \times 496 + \sqrt{256} \approx \frac{25}{100} \times 5584$$

$$\frac{576}{?} + 1364 + 16 \approx 1396$$

$$\frac{576}{?} \approx 1396 - 1380$$

$$? \approx \frac{576}{16}$$

$$? \approx 36$$

S8. Ans.(d)

Sol.

$$\sqrt[3]{6859} \times 36 + ? \approx (29)^2 - 41$$

$$19 \times 36 + ? = 841 - 41$$

$$? = 800 - 684$$

$$? = 116$$

S9. Ans.(e)

Sol.

$$\frac{?}{100} \times 5200 - (38)^2 + (16)^2 \approx (36)^2 - 40$$

$$52 \times ? = 1256 + 1188$$

$$52 \times ? = 2444$$

$$? = \frac{2444}{52}$$

$$? = 47$$

S10. Ans.(d)

Sol.

$$\frac{156}{100} \times 450 + \frac{133}{100} \times 600 \approx \frac{375}{100} \times ?$$

$$\frac{702 + 798}{?} = ?$$

$$? = \frac{3.75 \times 1500}{3.75}$$

$$? = 400$$

Sol (11-15)

Let total employees = 100x

$$\therefore \text{Employees in blog team} = \frac{100}{300} \times 100x = \frac{100x}{3}$$

$$\text{Employees working in support team} = \frac{25}{100} \times \left(100x - \frac{100x}{3}\right)$$

$$= \frac{1}{4} \times \frac{200x}{3}$$

$$= \frac{50x}{3}$$

Employees in content team

$$= \frac{120}{100} \times \frac{100x}{3}$$

$$= 40x$$

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∴ Employees in video team

$$= 100x - \left(\frac{100x}{3} + \frac{50x}{3} + 40x \right)$$

$$= 10x$$

$$\therefore 10x = 24$$

$$\Rightarrow x = 2.4$$

∴ Total employees in company = 240

Department	No. of employees	Regions from where employees belong			
		Delhi NCR	North East	Haryana	East
Blog	80	32	—	—	—
Support	40	0	24	—	—
Content	96	0	—	—	72
Video team	24	15	0	9	0

S11. Ans.(b)

Sol.

$$\text{Required \%} = \frac{80-24}{24} \times 100$$

$$= \frac{56}{24} \times 100$$

$$= 233\frac{1}{3}\%$$

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S12. Ans.(a)

Sol.

$$\text{Required ratio} = \frac{32+15}{96} = \frac{47}{96}$$

S13. Ans.(c)

Sol.

$$\text{Required average} = \frac{80+40+24}{3}$$

$$= \frac{144}{3} = 48$$

S14. Ans.(d)

Sol.

Required answer

$$\begin{aligned}
 &= \frac{25}{200} \times 96 + \frac{50}{300} \times 24 + \frac{20}{100} \times 40 \\
 &= 12 + 4 + 8 \\
 &= 24
 \end{aligned}$$

S15. Ans.(b)

Sol.

$$\text{Required difference} = |(32 + 24) - 72| = 16$$

S16. Ans.(e)

Sol.

Pattern is

$$260 - 28 = 232$$

$$232 - 28 = 204$$

$$204 - 28 = 176$$

$$176 - 28 = 148$$

$$148 - 28 = 120$$

$$120 - 28 = 92$$

S17. Ans.(a)

Sol.

Three are two alternative series

$$13, 15, 17, 19$$

$$18 + 3^2, 27 + 4^2, 43 + 5^2 = 68$$

S18. Ans.(c)

Sol. The pattern is $+(1^2 + 5), +(2^2 + 10), +(3^2 + 15), +(4^2 + 20), \dots$

$$46 + 36 = 82$$

S19. Ans.(d)

Sol.

$$19 + (2^2 + 2) = 25$$

$$25 + (4^2 + 4) = 45$$

$$45 + (6^2 + 6) = 87$$

$$87 + (8^2 + 8) = 159$$

$$159 + (10^2 + 10) = 269$$

S20. Ans.(e)

Sol.

$$(+41), (+41 \times 2), (+41 \times 4), (+41 \times 8)$$

$$\therefore 698 + 41 \times 16 = 498 + 656 = 1354$$

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