

Table Chart

Solution

1. **Answer: (A)**
Expat employees in B in 2010 & 2018 together = $\left(648 \times \frac{28}{72}\right) + \left(425 \times \frac{15}{58}\right)$
= $252 + 75 = 327$
Expat employees in C in 2010 & 2018 together = $\left(540 \times \frac{10}{90}\right) + \left(656 \times \frac{18}{82}\right)$
= $60 + 144 = 204$
Required difference = $327 - 204 = 123$
2. **Answer: (A)**
Total male promoted from A = $(180 + 160) \times \frac{40}{100} \times \frac{5}{8} = 85$
Total employee from C = $(300 + 150) = 450$
Required percentage = $\frac{85}{450} \times 100 = 18.88 \approx 19\%$
3. **Answer: (D)**
Total promoted female employee from C = $(300 + 150) \times \frac{32}{100} \times \frac{5}{11} = 60$
Total employee in B = $(200 + 240) = 440$
Required ratio = $\frac{60}{440} = 3:22$
4. **Answer: (E)**
Total male employee who are promoted from B = $(200 + 240) \times \frac{45}{100} \times \frac{2}{3} = 132$
Total male employee who did not promoted from B = $(200 - 132) = 68$
Required percentage = $\frac{68}{200} \times 100 = 34\%$
5. **Answer: (C)**
Average number of female employees from A and B together = $\frac{160+240}{2} = \frac{400}{2} = 200$
Required percentage = $\frac{200-200}{200} \times 100 = 0\%$
6. **Answer: (C)**
Total female did not promoted from A & B together = $(160 + 240) - 110 = 290$
Required percentage = $\frac{290}{400} \times 100 = 72.5\%$
7. **Answer: (C)**
Total promoted employee in D = $200 \times \frac{25}{100} + 240 \times \frac{40}{100} = 50 + 96 = 146$
Total employee in D = $146 \times \frac{100}{40} = 365$
Required difference = $(300 + 150) - 365 = 85$
8. **Answer: (B)**
 $2040+2300+2400+2200+2090+2120=13150$
9. **Answer: (D)**
 $\frac{2250-2180}{2180} \times 100 = 3.21\%$
10. **Answer: (C)**
Number of students in college P in 2008 = 2540.
Total number of students in P in all years = 13780.
Required percentage = $\frac{2540}{13780} \times 100 = 18\% \text{ (approx.)}$
11. **Answer: (A)**
Required ratio = $(2250 + 2480) : (2260 + 2440) = 4730 : 4700 = 473 : 470$
12. **Answer: (E)**
 $\frac{(2500+2250+2450+2150+2020+2300)}{6} = \frac{13670}{6} = 2278$
13. **Answer: (A)**
Illiterate men from M and O together = $\frac{4200}{6} \times 5 + \frac{3000}{2} \times 1 = 3500 + 1500 = 5000$
Illiterate men from N and Q together = $\frac{1500}{5} \times 3 + \frac{4500}{9} \times 7 = 900 + 3500$

$$= 4400$$

$$\text{Required difference} = 5000 - 4400 = 600$$

14. **Answer: (C)**

Illiterate men from village P and M together

$$= \frac{2000}{5} \times 7 + \frac{4200}{6} \times 5$$

$$= 2800 + 3500 = 6300$$

Total literate person from village N and O

$$\text{Together} = \frac{9600}{48} \times 31 + \frac{6300}{63} \times 40$$

$$= 6200 + 4000 = 10200$$

$$\text{Required \%} = \frac{3900}{102} = 38.23\%$$

15. **Answer: (D)**

Literate female from village O

$$= \frac{6300}{63} \times 40 - 3000 = 1000$$

Illiterate female from village Q

$$= \frac{13000}{130} \times 47 - \frac{4500}{9} \times 7$$

$$= 4700 - 3500 = 1200$$

$$\text{Required ratio} = 5 : 6$$

16. **Answer: (D)**

Illiterate women from village N and O together

$$= \left(\frac{9600}{48} \times 17 - \frac{1500}{5} \times 3 \right) +$$

$$\left(\frac{6300}{63} \times 23 - \frac{3000}{2} \times 1 \right)$$

$$(3400 - 900) + (2300 - 1500)$$

$$= 2500 + 800 = 3300$$

Illiterate men from village M and Q together

$$= \frac{4200}{6} \times 5 + \frac{4500}{9} \times 7$$

$$= 3500 + 3500 = 7000$$

17.

$$\text{Required sum} = 10300$$

Answer: (E)

Illiterate men from village M and P together

$$= \frac{4200}{6} \times 5 + \frac{2000}{5} \times 7$$

$$= 3500 + 2800 = 6300$$

Literate women from village N and O together

$$= \left(\frac{9600}{48} \times 31 - 1500 \right) \left(\frac{6300}{63} \times 40 - 3000 \right)$$

$$= (6200 - 1500) + (1000) = 5700$$

$$\text{Required \%} = \frac{6300+5700}{14700+9600} \times 100$$

$$= \frac{12000}{243} \approx 50\%$$

18.

Answer: (C)

$$\text{HP laptop sold by A} = 2376 \times \frac{6}{11} = 1296$$

$$\text{HP laptop sold by B} = 3510 \times \frac{9}{14} = 2025$$

$$\text{Required percentage} = \frac{2025-1296}{2025} \times 100$$

$$= \frac{729}{2025} \times 100 = 36\%$$

19.

Answer: (E)

Required average

$$= \frac{1}{3} \left[3150 \times \frac{5}{14} + 2080 \times \frac{3}{8} + 5280 \times \frac{13}{22} \right]$$

$$= \frac{1}{3} [1125 + 780 + 3120]$$

$$= \frac{1}{3} [5025] = 1675$$

20.

Answer: (B)

$$\text{Required ratio} = \frac{2080 \times \frac{5}{8}}{3360 \times \frac{1}{3}} = \frac{1300}{1120} = \frac{65}{56}$$