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CASELET

Solution

1. Answer: (B)

Males in company = $\frac{86}{79+86} \times 1650 = 860$

Female in company = 1650 - 860 = 790

Males in products development department = 198

Employees in sales and marketing

department = $\frac{18}{100} \times 1650 = 297$

Males in sales and marketing department

$$=\frac{5}{9}\times 297=165$$

Females in sales and marketing department = 132

Males in finance department = 77

Females in finance department

$$=\frac{5}{7} \times 77 = 55$$

Females in product development department = 165

Males in HR department = $77 \times 2 = 154$

Males in R&D and reinvestment department

= 860 - (198 + 165 + 77 + 154) = 266

Females in R&D and reinvestment

department
$$\frac{19}{14} \times 266 = 361$$

Females in HR department

$$=790 - (132 + 55 + 165 + 361) = 77$$

Female shifted from sales and marketing

Department $\frac{5}{12} \times 132 = 55$

Females in HR department = 77+55=132

Males in HR department = 154

Required ratio $=\frac{154}{132} = 1.17$

Answer: (2-6) Number of boys

$$=\frac{5}{14}\times 2800=1000$$

Number of girl = $\frac{9}{14} \times 2800 = 1800$

Number of boys who like only Singapore

$$= \frac{12}{100} \times 1000 = 120$$

Number of girls who like only Singapore

$$=\frac{250}{100}\times120=300$$

Number of girls who like only Darjeeling

$$= 1800 \times \frac{16}{100} = 288$$

Number of boys who like only Darjeeling = $1000 \times \frac{23}{100} = 230$

$$= 1000 \times \frac{23}{100} = 230$$

Number of students who like only pair = 925

No. of boys who like only all three sites

$$=1000 \times \frac{1}{4} = 250$$

No. of boys who like only pairs

= 1000 - (120 + 230 + 250) = 400

No. of girls who like only pairs = 925 - 400= 525

No. of girl who like only all three cities = 1800 - (300 + 288 + 525) = 687

- Answer: (B) 2.
- Answer: (E)
- Answer: (A)
- Answer: (E) Answer: (D)

Number of boys who liked Darjeeing

= 230 + 250 = 480

Answer: (7-12)

FL00R	PERSON	SUBJECTS
7	S	9000
6	N	11000
5	M	15000
4	Q	3500
3	P	5000
2	R	7500
1	О	13500

- 7. Answer: (D)
- 8. Answer: (A)
- 9. Answer: (C)
- 10. Answer: (C)
- 11. Answer: (E)
- **12.** Answer: (C)

Answer: (13-17) Let number of girls in hostel B = 100x

Then number of boys in hostel B = 200x

Number of girls in hostel A = 130x

Number of boys in hostel C = 120 + 100



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= 220

Number of girls in hostel C = 1000 - 220 = 780

Total number of girls in hostel A and that of in hostel D = 446

Number of girls in hostel D = (446 - 130x)

Number of boys in hostel D = 302

ATQ,

200x - 302 = 98

x = 2

<u>-</u>						
Hostels	Boys	Girls				
A	120	260				
В	400	200				
С	220	780				
D	302	186				

13. Answer: (B)

Required percentage =
$$\frac{(302-186)}{(400-200)} \times 100$$

= 58%

14. Answer: (A)

Required difference

$$=(302+186)-(120+260)=108$$

15. Answer: (A)

Required ratio =
$$\frac{600}{1000} = \frac{3}{5}$$
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16. Answer: (D)

Required average
$$= \frac{100+380+200+282}{4} = 240.5$$

17. Answer: Answer: (B)

Total number of boys in hostel A and that of girls in hostel C = 900

Required
$$\% = \frac{900 - 400}{400} \times 100 = 125\%$$

18. Answer: (B)

	A	В	C
Veg	72	60	63
Non-veg	56	80	45

Required total amount = $60 \times 200 + 80 \times 300 = 12000 + 24000$

= 36000

19. **Answer:** (A)

Required ratio =
$$\frac{72+36}{80+45}$$

$$=\frac{135}{125}=\frac{27}{15}$$

20. Answer: (E)

Required ratio =
$$\frac{72+60+63}{3}$$

$$= 6$$

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