

Line Graph

Solution

1. **Answer: (A)**
 $300 : 200 : 350 = 6 : 4 : 7$
2. **Answer: (B)**
 Required ratio
 $= \frac{25+20}{15+17.5} = \frac{45}{32.5} = 18 : 13$
3. **Answer: (D)**
 Required percentage
 $= \frac{25+20-(20+15)}{(20+15)} \times 100 = \frac{(45-35)}{35} \times 100$
 $= \frac{200}{7} \%$
4. **Answer: (D)**
 Articles sold By A in December
 $= \left(1 + \frac{7}{30}\right) 30 = 37$
 Required average
 $= \frac{25+20+37}{3} = \frac{82}{3} = 27\frac{1}{3}$
5. **Answer: (C)**
 Required ratio
 $= \frac{17.5+30}{20+25} = \frac{47.5}{45}$
 $= 19 : 18$
6. **Answer: (E)**
 Articles sold by A in June
 $= \frac{4}{3} \times 15 = 20$
 Articles sold by in Aug and Sep
 $= 15 + 20 = 35$
 Required percentage
 $= \frac{35-20}{20} \times 100 = 75\%$
7. **Answer: (B)**
 Average of articles sold by A in July, Oct and Nov
 $= \frac{15+20+30}{3} = \frac{65}{3}$
 Average of articles sold by B in Aug, Sep and Oct
 $= \frac{15+20+25}{3} = \frac{60}{3}$
 Required difference
 $\frac{65}{3} - \frac{60}{3} = \frac{5}{3} = 1\frac{2}{3}$
8. **Answer: (B)**
 Boxes of both sizes sold on Tuesday
 $= 32 + 42 = 74$
 Large boxes sold on Friday = 70
 \therefore Required percent = $74/70 \times 100 = 105.7\%$
9. **Answer: (A)**
 Medium size wox box sold on Monday = 48
 Large six wox box sold on Thursday = 46
 \therefore Required difference = 2
10. **Answer: (E)**
 Large six wox box sold on Wednesday = 32
 Medium size wox box sold on Tuesday = 32
 \therefore Required Ratio = 1 : 1
11. **Answer: (D)**
 Medium wox box sold on Monday = 48
 Medium wox box sold on Thursday = 52
 Medium wox box sold on Friday = 40
 \Rightarrow Total boxes = 140
 \therefore Average = $140/3 = 46.67$
12. **Answer: (E)**
 Total wox boxes sold on Monday = $48 + 36 = 84$
 Total wox boxes sold on Thursday = $52 + 46 = 98$
 \therefore Required percent = $84/98 \times 100 = 85.7\%$
13. **Answer: (A)**
 Large size wox box sold on Monday = 36
 Large size wox box sold on Tuesday = 42
 Large size wox box sold on Wednesday = 32
 Large size wox box sold on Thursday = 46
 Large size wox box sold on Friday = 70
 \therefore Total number of large size wox boxes sold on all the days = 226
14. **Answer: (B)**
 Total employees in office E = $180 + 120 = 300$
 Total number of employees in office F = 120% of 300 = 360
 Number of female employees in office F = 160 (given)
 Number of male employees in office F = $360 - 160 = 200$
 \therefore Required Difference = $200 - 180 = 20$

15. **Answer: (C)**
Female employees in office B and C together = $360 + 480 = 840$
Male employees in office D and E together = $260 + 180 = 440$
 \therefore Required Ratio = $840 : 440 = 21 : 11$

16. **Answer: (D)**
Number of male employees in B = 220
Number of male employees in C = 380
Number of male employees in E = 180
 \therefore Required Average = $(220 + 380 + 180)/3 = 260$

17. **Answer: (B)**
Total number of female employees in B and C together = $360 + 480 = 840$
Total number of male employees in B and C together = $220 + 380 = 600$
 \therefore Required Percentage = $(840/600) \times 100 = 140\%$

18. **Answer: (E)**
Total number of employees in office C = $(380 + 480) = 860$
Total number of employees in office B = $(220 + 360) = 580$
 \therefore Required Difference = $860 - 580 = 280$

19. **Answer: (B)**
GIVEN:
Number of Elephants in zoo A in 2003 = 22
Number of Elephants in zoo B in 2003 = 10
Number of Elephants in zoo A in 2005 = 15
Number of Elephants in zoo B in 2005 = 21
Total number of Elephants in both the zoo in 2003 = $22 + 10 = 32$
Total number of Elephants in both the zoo in 2005 = $21 + 15 = 36$
 \therefore The difference between the total number of Elephants in both the zoo in 2003 and 2005 = $36 - 32 = 4$

20. **Answer: (E)**
GIVEN:
Number of Elephants in zoo A in 2001 = 12
Number of Elephants in zoo A in 2002 = 18
Number of Elephants in zoo B in 2003 = 10
Number of Elephants in zoo B in 2004 = 20
Total number of Elephants in Zoo A in the year 2001 and 2002 together = $12 + 18 = 30$
Total number of Elephants in Zoo B in the year 2003 and 2004 together = $10 + 20 = 30$
Required ratio = $30 : 30$
 \therefore Required ratio = $1 : 1$