The bar graph given below shows the sales of books (in thousand number from six branches of a publishing company during two consecutive years 2000 and 2001. Sales of books (in thousands numbers) from six branches B1, B2, B3, B4, B5 and B6 of a publishing company in 2000 and 2001.
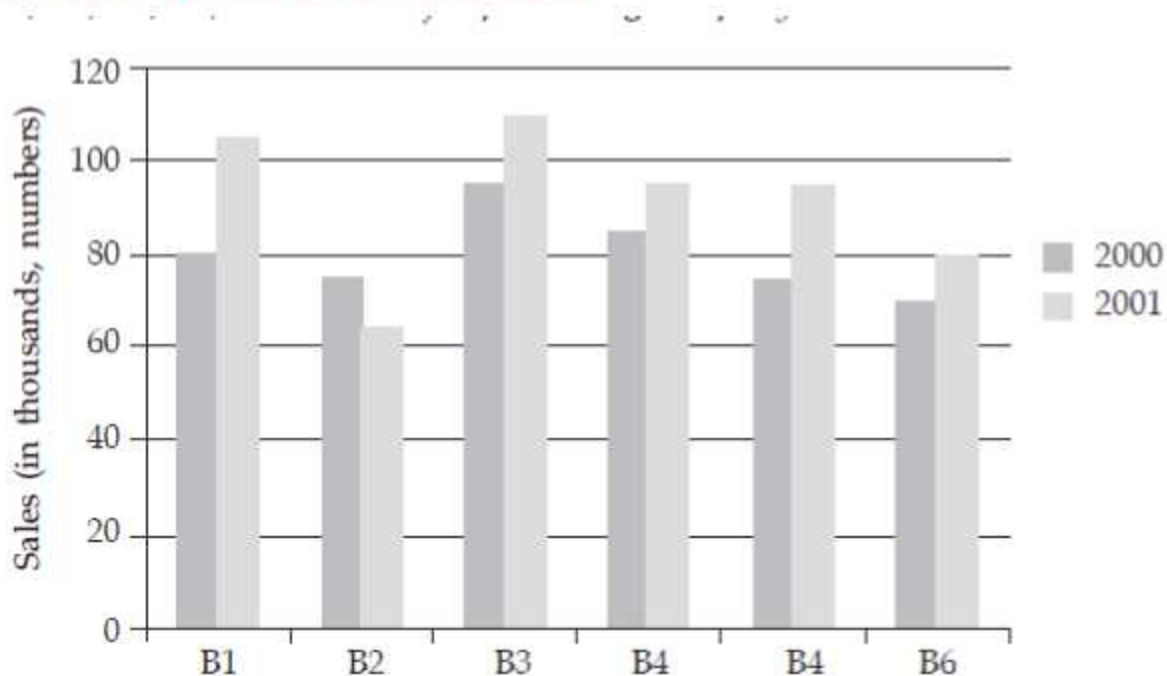
1. What is the ratio of the total sales of branch B2 for both years to the total sales of branch B4 for both years?
a. 4 : 5
b. 10 : 1
c. 7 : 9
d. 8 : 5
   Ans: C

$$\text{Required ratio} = \frac{\text{Total Sales of branch B2 for both years}}{\text{Total Sales of branch B4 for both years}}$$

$$= \frac{75+65}{85+95} = \frac{140}{180} = \frac{7}{9}$$

2. Total sales of branch B6 for both the years is what percent of the total sales of branch B3 for both the years?
a. 73 : 17
b. 80. 23
c. 75.3
d. 85.7
   Ans: A

Total sales of branch B6 for both years = 70 + 80 = 150
Total sales of branch B3 for both years = 95 + 110 = 205

Required percentage $\frac{150}{205} \times 100 = 73.7\%$

3. What percent of the average sales of branch B1, B2 and B3 in 2001 is the average sales of branches B1, B3 and B6 in 2000?

a. 45%
b. 82.5
c. 90.6
d. 87.5

Ans: D

Total sales (in thousands numbers) of branches B1, B3 and B6 in 200 = 80 + 95 + 70 = 245

Average sales (in thousands number) of branches B1, B3 and B6 in 2000 = $\frac{245}{3}$

Total sales (in thousands number) of branches B1, B2 and B3 in 2001 = 105 + 65 + 110 = 280

Average sales (in thousands number) of branches B1, B2 and B3 in 2001 = $\frac{280}{3}$

So, required percentage = $\frac{\frac{245}{3}}{\frac{280}{3}} \times 100\%$

$= \frac{245}{280} \times 100 = 87.5\%$

4. What is the average sales of all the branches (in thousands numbers) for the years 2000>

a. 73
b. 80
c. 83
d. 85

Ans: B

Total sales of all the six branches (in thousand numbers) for the year 2000 = 80 + 75 + 95 + 85 + 75 + 70 = 480

Average sales of all the six branches (in thousand numbers) for the year 2000 = $\frac{480}{8} = 80$

5. Total sales branches B1, B3 and B5 together for both the years (in thousands numbers) is?

a. 250
b. 315
c. 560
d. 435

Ans: C

Total safes of branches B1, B3 and B5 for both the years
(in thousands numbers)
= (80 + 105) + (95 + 110) + (75 + 95) = 560