



**Bipin Nambiar**  
(SBI PO 2018)



**Shiraz Khan**  
(SBI Clerk 2018)



**Kuldeep Yadav**  
(SBI PO 2018)



**Rajat Saxena**  
(IBPS Clerk 2018)



**Anupam Tyagi**  
(IBPS PO 2018)

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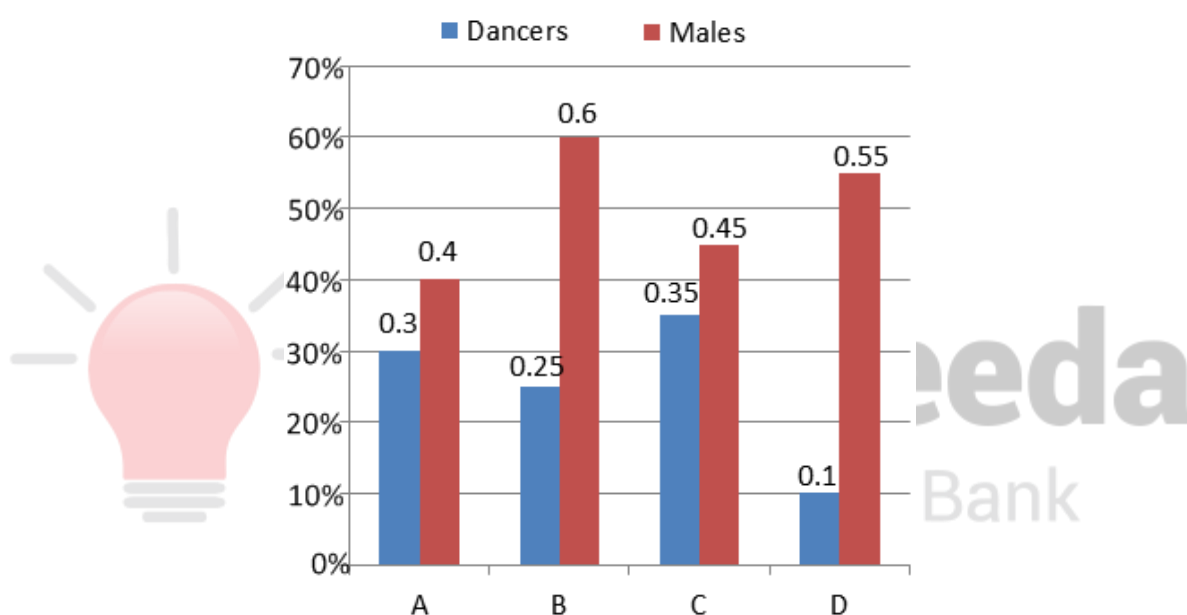
# DI Mixed Chart Questions for SBI PO Mains, IBPS PO Mains and RBI Grade B Exams.

## DI Mixed Chart No. 71

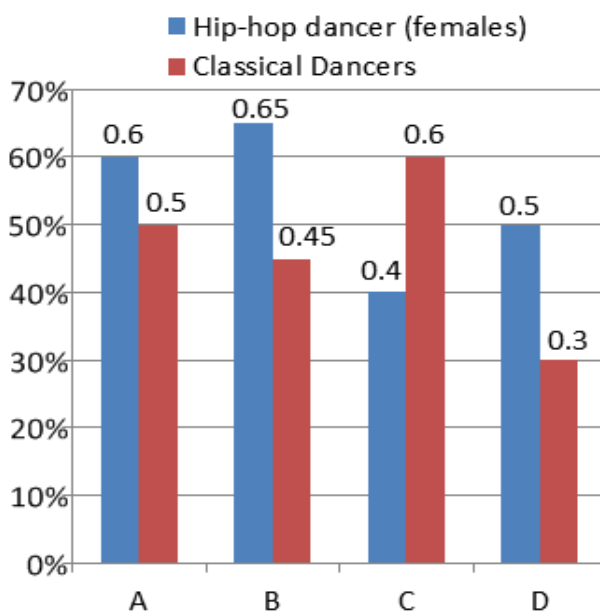
Directions : Study the following bar and table chart carefully and answer the questions given beside.

There are four groups A, B, C and D in a dance academy. Each group has two types of dancers who do dance of exactly one type either hip-hop or classical. Total number of dancers in academy is 6000.

The chart given below shows the number of dancers in each group as percent of total dancers in the academy and percentage of number of males in each group.



The chart given below shows the percentage of number of females (among females) who do hip-hop from each group and percentage of number of dancers who do classical from each group.



The table chart given below shows the average expenditure on a dancer.

	Hip-hop	Classical
Male	80	120
Female	60	150

1. What is the expenditure on group A?

- A. Rs. 1,70,500      B. Rs. 1,60,000      C. Rs. 1,80,000      D. Rs. 1,90,200      E. Rs. 1,50,000

2. The expenditure on male dancers of group B and C is what percent of expenditure on female dancers of group C and D?

- A. 118%      B. 120%      C. 112%      D. 126%      E. 140%

3. Which group has most number of classical dancers?

- A. Group A      B. Group B      C. Group C      D. Group D      E. Can't be determined

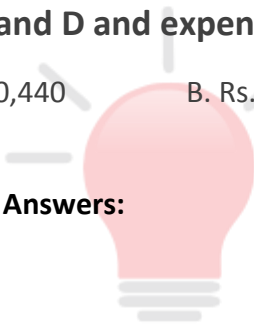
4. What is the ratio of expenditure on female dancers of group B to expenditure on male dancers of group D?

- A. 8 : 3      B. 200 : 103      C. 174 : 101      D. 82 : 41      E. 183 : 94

5. What is the difference between expenditure on male classical dancers of group A and D and expenditure on female hip-hop dancers of group B and C?

- A. Rs. 10,440      B. Rs. 10,860      C. Rs. 11,220      D. Rs. 11,520      E. Rs. 10,280

Correct Answers:



1	2	3	4	5
C	A	C	E	A

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## Common explanation :

For group A:

Number of dancers in group A = 30% of 6000 = 1800

Male dancers in group A = 40% of 1800 = 720

Female dancers in group A = 1800 – 720 = 1080

Classical dancers in group A = 50% of 1800 = 900

Hip-hop dancers in group A = 1800 – 900 = 900

Female hip-hop dancers in group A = 60% of 1080 = 648

Female classical dancers in group A = 1080 – 648 = 432

Male hip-hop dancers in group A = 900 – 648 = 252

Male classical dancers in group A = 900 – 432 = 468

Similarly calculating for every group we get

Group	Dancers	Male	Female	Hip-hop dancers	Classical dancers
A	1800	720	1080	900	900
B	1500	900	600	825	675
C	2100	945	1155	840	1260
D	600	330	270	420	180

Group	Females		Males	
	Hip-hop	Classical	Hip-hop	Classical
A	648	432	252	468
B	390	210	435	465
C	462	693	378	567
D	135	135	285	45

## Answers :

1. From common explanation, we have

$$\text{Expenditure} = 252 \times 80 + 648 \times 60 + 468 \times 120 + 432 \times 150 = \text{Rs. } 1,80,000$$

Hence, option C is correct.

2. From common explanation, we have

$$\text{Expenditure on male dancers of group B and C} = (435 + 378) \times 80 + (465 + 567) \times 120 = \text{Rs. } 1,88,880$$

$$\text{Expenditure on female dancers of group C and D} = (462 + 135) \times 60 + (693 + 135) \times 150 = \text{Rs. } 1,60,020$$

$$\text{Percentage} = \frac{188880}{160020} \times 100 = 118\%$$

Hence, option A is correct.

3. From common explanation, we see that

Group C has most number of classical dancers.

Hence, option C is correct.

4. From common explanation, we have

$$\text{Expenditure on female dancers of group B} = 390 \times 60 + 210 \times 150 = \text{Rs. } 54,900$$

$$\text{Expenditure on male dancers of group D} = 285 \times 80 + 45 \times 120 = \text{Rs. } 28,200$$

$$\text{Ratio} = 54900 : 28200 = 183 : 94$$

Hence, option E is correct.

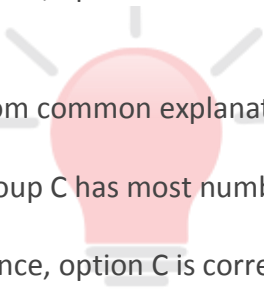
5. From common explanation, we have

$$\text{Expenditure on male classical dancers of group A and D} = (468 + 45) \times 120 = \text{Rs. } 61,560$$

$$\text{Expenditure on female hip-hop dancers of group B and C} = (390 + 462) \times 60 = \text{Rs. } 51,120$$

$$\text{Difference} = 61560 - 51120 = \text{Rs. } 10,440$$

Hence, option A is correct.





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