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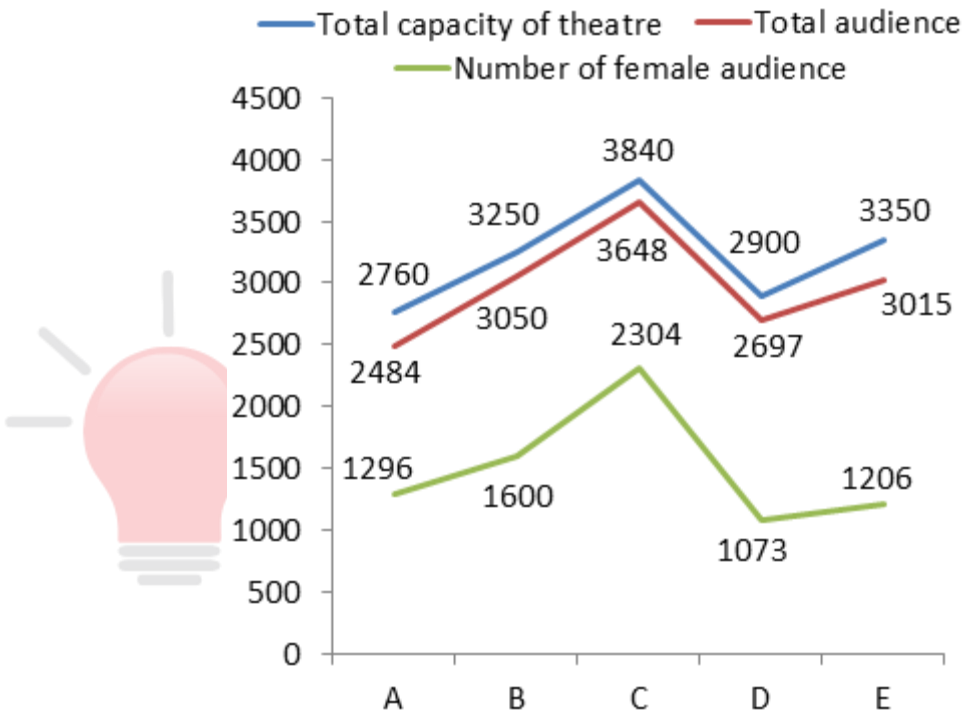
The Question Bank

DI Line Chart Questions for SBI Clerk Mains, IBPS Clerk Mains, RBI Assistant Mains, LIC AAO, SBI PO Pre and IBPS PO Pre Exams.

DI Line Chart No 36

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

A movie is played in five different theatres after release. The chart represents the total capacity of each theatre, total number of audiences and the number of female audiences in each theatre on the 1st day 1st show after the release of the movie.



1. The total number of male audiences who watched the movie in theatre E is what percentage of the total number of audience who watched the movie in theatre E?

A. 55% B. 65% C. 45% D. 60% E. 70%

2. Find the number of seats which has remained vacant in all the five movie theatres together.

A. 1537 B. 1206 C. 1372 D. 1140 E. 1486

3. What is the difference between the number of males and the number of females who watched the movie in all the five movie theatres together?

A. 64 B. 89 C. 51 D. 30 E. 103

4. **What is the ratio of the number of males to the number of females who watched the movie in theatre C?**

A. 8 : 13 B. 6 : 13 C. 7 : 12 D. 4 : 9 E. None of these

5. **The ratio of the number of audience in the 1st show to the number of audience in the 2nd show in theatre A is 23 : 25 respectively. If the ratio of the number of males to the number of females who have watched the movie in the 2nd show is 4 : 5 respectively then find the number of males who have watched the movie in the 2nd show in theatre A.**

A. 1280 B. 1200 C. 1204 D. 1236 E. 1248

Correct Answers:

1	2	3	4	5
D	B	A	C	B

Explanations :

1. The total number of male audiences who watched the movie in theatre E = (3015 – 1206) = 1809

$$\text{Reqd. } \% = \frac{1809}{3015} \times 100 = 60\%$$

Hence, option D is correct.

2. Total number of seats in all the five movie theatres together = 2760 + 3250 + 3480 + 2900 + 3350 = 16100

Total number of persons who watched the movie in all the five theatres together = 2484 + 3050 + 3648 + 2697 + 3015 = 14894

Therefore, the number of seats which has remained vacant in all the five movie theatres together = 16100 – 14894 = 1206

Hence, option B is correct.

3. Number of females who watched the movie in all the five theatres together = (1296 + 1600 + 2304 + 1073 + 1206) = 7479

Total number of peoples who watched the movie in all the five theatres together = (2484 + 3050 + 3648 + 2697 + 3015) = 14894

So, total number of males who watched the movie in all the five theatres together = (14894 – 7479) = 7415

Therefore, required difference = (7479 – 7415) = 64

Hence, option A is correct.

4. The total number of females who watched the movie in theatre C = 2304

So, the total number of males who watched the movie in theatre C = (3648 – 2304) = 1344

Required Ratio = 1344 : 2304 = 7 : 12

Hence, option C is correct.

5. Let the total number of audience who have watched the movie in the 1st show and the total number of audience who have watched the movie in the 2nd show in theatre A is 23x and 25x, respectively.

So, 23x = 2484 ; x = 108

Therefore, the total number of audience who have watched the movie in the 2nd show in theatre A = 25x =2700

So, the number of males who have watched the movie in the 2nd show in theatre A

$= \frac{4}{9} \times 2700 = 1200$

Hence, option B is correct.