# 1. What is Normalisation?

Normalisation as used in the Indian context is a process for ensuring that students are neither advantaged nor disadvantaged by the difficulty of exams that they do for the Boards. This process is used in other countries with similar issues as in India.

# 2. Normalisation Process requires us to know the following

**Percentile Score**

Percentile score of a Candidate in a Board or JEE (Main) will reflect what Percentage of Candidates have scored below that Candidate in that Board or JEE (Main) Examination.

A Percentile score is the value of below which a certain Percent of observations fall. For example, the 20th Percentile is the value (or score) below which 20 Percent of the observations may be found.

The Percentile of a Candidate will be calculated as

$$100 \, X \, \frac{Number \; of \; candidates \; in \; the \; `group' \; with \; aggregate \; marks \; less \; than \; the \; candidate}{Total \; no. \, of \; candidates \; in \; the \; `group'}$$

Example : Suppose we have , 13711 Candidates in a Board ABCD and a Candidate who has scored 60% of Board marks has 6865 Candidates below him; his Percentile score will be calculated as follows

$$\boldsymbol{Percentile \; score \; for \; 60\% \; of \; Board \; Marks = \frac{6865}{13711} * 100}$$
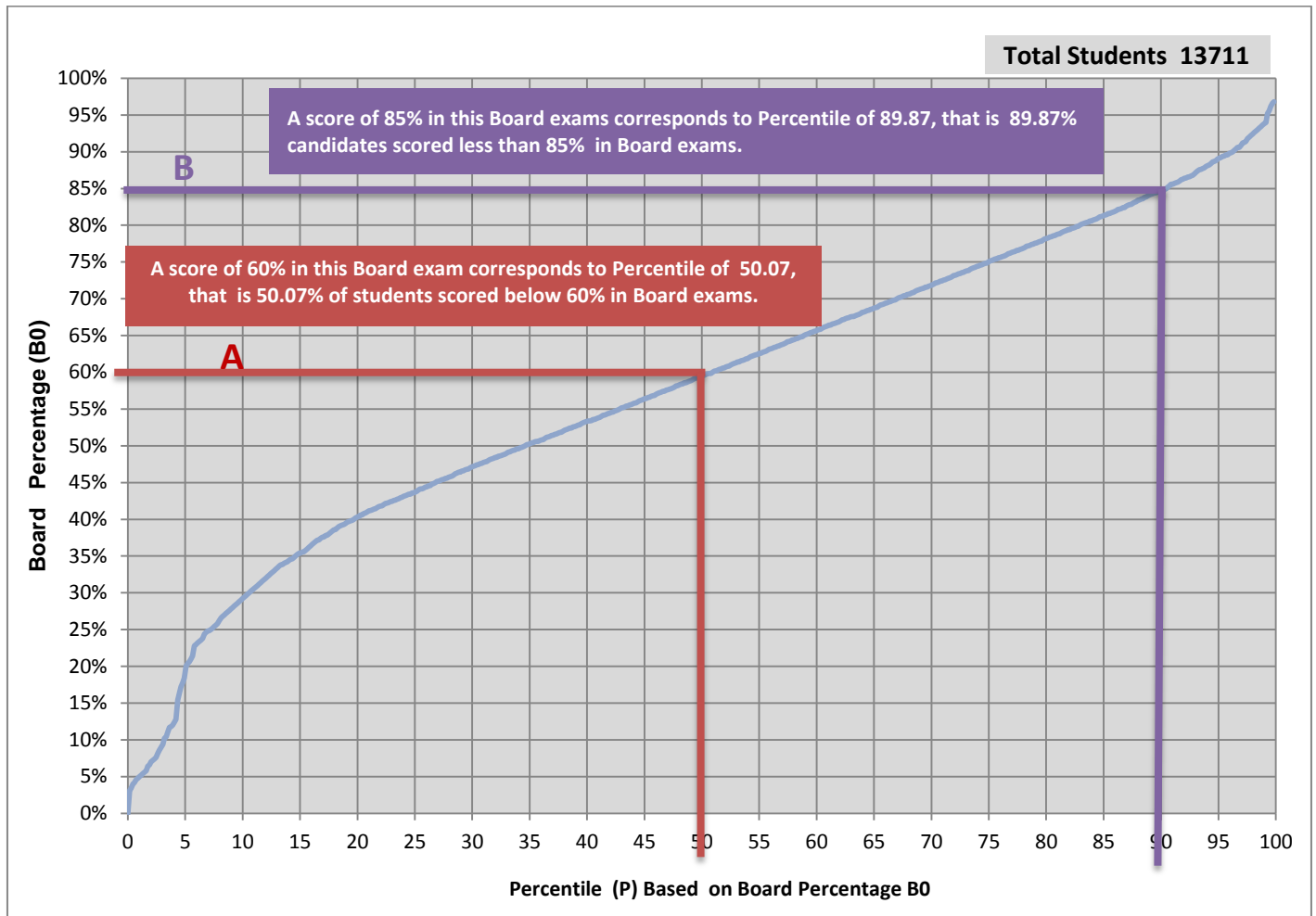
$$\boldsymbol{Percentile = 50.07}$$

**Table 1: Percentage and corresponding Percentile score of 13711 Candidates of Board ABCD.**

| Board Percentage (B0) | No of candidates below candidate the with Board Percentage B0 | Percentile Calculation corresponding to B0 | Percentile Score (P) |
|---|---|---|---|
| **7%** | 317 | 100 X (317/13711) | 2.31 |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| **13%** | 575 | 100 X (575/13711) | 4.19 |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| **21%** | 774 | 100 X (774/13711) | 5.65 |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| **29%** | 1349 | 100 X (1349/13711) | 9.84 |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| **58%** | 6627 | 100 X (6627/13711) | 48.33 |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| **60%** | 6865 | 100 X (6865/13711) | 50.07 |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| **84%** | 12203 | 100 X (12203/13711) | 89.00 |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| **85%** | 12322 | 100 X (12322/13711) | 89.87 |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| **91%** | 13274 | 100 X (13274/13711) | 96.81 |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| **94%** | 13592 | 100 X (13592/13711) | 99.13 |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| --------- | . | --------- | --------- |
| **96%** | 13651 | 100 X (13651/13711) | 99.56 |

**Graphical view of Percentage and their corresponding Percentile of data of 13711 Candidates of Board ABCD is shown the chart 1. Two Board Percentage Marks and corresponding Percentile have also been discussed.**

**Chart 1**



In the above chart,

(A)    85% Board marks correspond to 89.87 Percentile

(B)    60% Board marks correspond to 50.07 Percentile

## 3. Normalisation of Board Marks for JEE (Main)

To find out normalised marks of a Candidate from the Board ABCD who has scored, say , 60% in the Board, following are required to be done :-

**Step 1.** **Calculate Percentile ($P_i$) of the Candidate with reference to the group of Candidates of Board ABCD who also satisfy the eligibility criteria of JEE (Main).**

**From the Table 2, this is 50.07**

Table 2:  Showing the Percentage score in a particular Board, say, ABCD of 13711 Candidates who satisfy the eligibility criteria of JEE (Main) and their corresponding Percentile (P).

| Board Percentage (B0) | No of candidates below candidate the with Board Percentage (B0) | Percentile Calculation corresponding to B0 | Percentile (P) |
|---|---|---|---|
| 5% | 200 | 100 X (200/13711) | 1.46 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 7% | 317 | 100 X (317/13711) | 2.31 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 12% | 450 | 100 X (450/13711) | 3.28 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 13% | 575 | 100 X (575/13711) | 4.19 |
| -------- -------- | . . | -------- | -------- |
| 21% | 774 | 100 X (774/13711) | 5.65 |
| -------- -------- -------- | . . . | -------- -------- | -------- -------- |
| 29% | 1349 | 100 X (1349/13711) | 9.84 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 58% | 6627 | 100 X (6627/13711) | 48.33 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 60% | 6865 | 100 X (6865/13711) | 50.07 |
| ===== ===== ===== | . . | ===== ===== | ===== ===== |
| 84% | 12203 | 100 X (12203/13711) | 89.00 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 85% | 12322 | 100 X (12322/13711) | 89.87 |
| ===== ===== ===== | . . . | ===== ===== | ===== ===== |
| 91% | 13274 | 100 X (13274/13711) | 96.81 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 94% | 13592 | 100 X (13592/13711) | 99.13 |
| ===== ===== | . . | ===== ===== | ===== ===== |
| 96% | 13651 | 100 X (13651/13711) | 99.56 |

**Step 2.   Arrange JEE (Main) score of all 11.5 lakhs Candidates in ascending order and find out Percentile for each score.**

Table 3:  Showing the JEE (Main) score of 11.5 lakhs Candidates and their corresponding Percentile (P).

| JEE (Main) Score | No of candidates below candidate the with JEE (Main) Score | Percentile Calculation corresponding to JEE (Main) | Percentile (P) |
|---|---|---|---|
| **10** | 26673 | 100 X (26673/1153667) | 2.31 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| **18** | 48381 | 100 X (48381/1153667) | 4.19 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| **20** | 65126 | 100 X (65126/1153667) | 5.65 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| **30** | 113507 | 100 X (113507/1153667) | 9.84 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| **35** | 230733 | 100 X (230733/1153667) | 20.00 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| **41** | 403785 | 100 X (403785/1153667) | 35.00 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| **43** | 557607 | 100 X (557607/1153667) | 48.33 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| **48** | 577633 | 100 X (577633/1153667) | 50.07 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| **80** | 1116897 | 100 X (1116897/1153667) | 96.81 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| **218** | 1143654 | 100 X (1143654/1153667) | 99.13 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| **343** | 1153007 | 100 X (1153007/1153667) | 99.94 |

**Step 3.** Arrange JEE (Main) score of Candidates from Board ABCD only, in ascending order and find out the Percentile for each score.

Table 4: Showing the JEE (Main) score of Candidates from Board ABCD who satisfy the eligibility criteria of JEE (Main) and their corresponding Percentile (P).

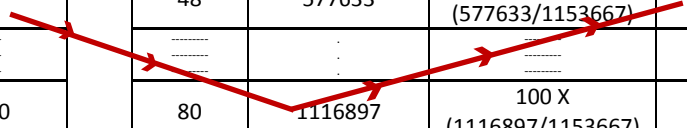| JEE (Main) Score | No of candidates below candidate the with JEE (Main) Score | Percentile Calculation corresponding to JEE (Main) | Percentile (P) |
|---|---|---|---|
| 4 | 31 | 100 X (31/13711) | 0.23 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 12 | 400 | 100 X (400/13711) | 2.92 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 15 | 812 | 100 X (812/13711) | 5.92 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 20 | 1350 | 100 X (1350/13711) | 9.85 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 60 | 6627 | 100 X (6627/13711) | 48.33 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 80 | 6865 | 100 X (6865/13711) | 50.07 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 100 | 12203 | 100 X (12203/13711) | 89.00 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 130 | 12322 | 100 X (12322/13711) | 89.87 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 150 | 13274 | 100 X (13274/13711) | 96.81 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 220 | 13592 | 100 X (13592/13711) | 99.13 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 338 | 13651 | 100 X (13651/13711) | 99.56 |

**Step 4.** **4.i** Use Percentile (Pi), 50.07, calculated from step 1 (Table 2) and find out the same Percentile in the Percentile calculated in step 2 (Table 3).

**Table 2 (Reproduced)**

| Board Percentage (B0) | No of candidates below candidate the with Board Percentage $B_0$ | Percentile Calculation corresponding to B0 | Percentile (P) |
|---|---|---|---|
| 5% | 200 | 100 X (200/13711) | 1.46 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>--------<br>-------- | --------<br>--------<br>-------- |
| 7% | 317 | 100 X (317/13711) | 2.31 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>--------<br>-------- | --------<br>--------<br>-------- |
| 12% | 450 | 100 X (450/13711) | 3.28 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>--------<br>-------- | --------<br>--------<br>-------- |
| 13% | 575 | 100 X (575/13711) | 4.19 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>-------- | --------<br>-------- |
| 21% | 774 | 100 X (774/13711) | 5.65 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>--------<br>-------- | --------<br>--------<br>-------- |
| 29% | 1349 | 100 X (1349/13711) | 9.84 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>--------<br>-------- | --------<br>--------<br>-------- |
| 58% | 6627 | 100 X (6627/13711) | 48.33 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>--------<br>-------- | --------<br>--------<br>-------- |
| 60% | 6865 | 100 X (6865/13711) | 50.07 |
| --------<br>-------- | .<br>. | --------<br>-------- | --------<br>-------- |
| 84% | 12203 | 100 X (12203/13711) | 89.00 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>--------<br>-------- | --------<br>--------<br>-------- |
| 85% | 12322 | 100 X (12322/13711) | 89.87 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>--------<br>-------- | --------<br>--------<br>-------- |
| 96% | 13651 | 100 X (13651/13711) | 99.56 |

**Table 3 (Reproduced)**

| JEE (Main) Score | No of candidates below candidate the with JEE (Main) Score | Percentile Calculation corresponding to JEE (Main) | Percentile (P) |
|---|---|---|---|
| 10 | 26673 | 100 X (26673/1153667) | 2.31 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>--------<br>-------- | --------<br>--------<br>-------- |
| 18 | 48381 | 100 X (48381/1153667) | 4.19 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>--------<br>-------- | --------<br>--------<br>-------- |
| 20 | 65126 | 100 X (65126/1153667) | 5.65 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>--------<br>-------- | --------<br>--------<br>-------- |
| 30 | 113507 | 100 X (113507/1153667) | 9.84 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>--------<br>-------- | --------<br>--------<br>-------- |
| 35 | 230733 | 100 X (230733/1153667) | 20.00 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>--------<br>-------- | --------<br>--------<br>-------- |
| 41 | 403785 | 100 X (403785/1153667) | 35.00 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>--------<br>-------- | --------<br>--------<br>-------- |
| 43 | 557607 | 100 X (557607/1153667) | 48.33 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>--------<br>-------- | --------<br>--------<br>-------- |
| 48 | 577633 | 100 X (577633/1153667) | 50.07 |
| --------<br>-------- | .<br>. | --------<br>-------- | --------<br>-------- |
| 80 | 1116897 | 100 X (1116897/1153667) | 96.81 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>--------<br>-------- | --------<br>--------<br>-------- |
| 218 | 1143654 | 100 X (1143654/1153667) | 99.13 |
| --------<br>--------<br>-------- | .<br>.<br>. | --------<br>--------<br>-------- | --------<br>--------<br>-------- |
| 343 | 1153007 | 100 X (1153007/1153667) | 99.94 |

**4.ii    Now, to find B1, find out JEE (Main) score, corresponding to the matched Percentile in 4.i above. This is B1.**

   **Here, B1 = 48.**

**Table 2 (Reproduced)**

| Board Percentage (B0) | No of candidates below candidate the with Board Percentage $B_0$ | Percentile Calculation corresponding to B0 | Percentile (P) |
|---|---|---|---|
| 5% | 200 | 100 X (200/13711) | 1.46 |
| -------- ------- -------- | . . | ------- ------- ------- | -------- -------- -------- |
| 7% | 317 | 100 X (317/13711) | 2.31 |
| -------- -------- -------- | . . | -------- -------- -------- | -------- -------- -------- |
| 12% | 450 | 100 X (450/13711) | 3.28 |
| ------- ------- ------- | . . | ------- ------- ------- | ------- ------- ------- |
| 13% | 575 | 100 X (575/13711) | 4.19 |
| ------- ------- ------- | : | ------- ------- | -------- -------- |
| 21% | 774 | 100 X (774/13711) | 5.65 |
| -------- -------- -------- | . . | -------- -------- -------- | -------- -------- -------- |
| 29% | 1349 | 100 X (1349/13711) | 9.84 |
| -------- -------- -------- | . . | -------- -------- -------- | -------- -------- -------- |
| 58% | 6627 | 100 X (6627/13711) | 48.33 |
| -------- -------- -------- | . . | -------- -------- -------- | -------- -------- -------- |
| 60% | 6865 | 100 X (6865/13711) | 50.07 |
| -------- ------- -------- | . . | ------- ------- -------- | -------- -------- -------- |
| 84% | 12203 | 100 X (12203/13711) | 89.00 |
| ------- ------- ------- | . . | ------- ------- ------- | -------- -------- -------- |
| 85% | 12322 | 100 X (12322/13711) | 89.87 |
| -------- -------- -------- | . . | -------- -------- -------- | -------- -------- -------- |
| 96% | 13651 | 100 X (13651/13711) | 99.56 |

**Table 3 (Reproduced)**

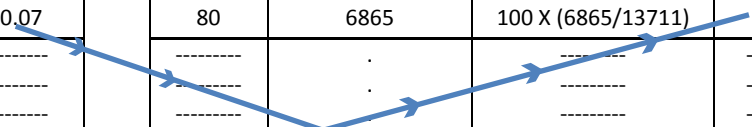| JEE (Main) Score | No of candidates below candidate the with JEE (Main) Score | Percentile Calculation corresponding to JEE (Main) | Percentile (P) |
|---|---|---|---|
| 10 | 26673 | 100 X (26673/1153667) | 2.31 |
| -------- -------- -------- | . . | ------- ------- ------- | -------- -------- -------- |
| 18 | 48381 | 100 X (48381/1153667) | 4.19 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 20 | 65126 | 100 X (65126/1153667) | 5.65 |
| -------- -------- -------- | . . | -------- -------- -------- | -------- -------- -------- |
| 30 | 113507 | 100 X (113507/1153667) | 9.84 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 35 | 230733 | 100 X (230733/1153667) | 20.00 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 41 | 403785 | 100 X (403785/1153667) | 35.00 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 43 | 557607 | 100 X (557607/1153667) | 48.33 |
| -------- -------- -------- | ← . . | ← -------- -------- | ← -------- -------- |
| 48 | 577633 | 100 X (577633/1153667) | 50.07 |
| -------- -------- -------- | . . | -------- -------- -------- | -------- -------- -------- |
| 80 | 1116897 | 100 X (1116897/1153667) | 96.81 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 218 | 1143654 | 100 X (1143654/1153667) | 99.13 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 343 | 1153007 | 100 X (1153007/1153667) | 99.94 |

**Step 5.**  **5.i  Use Percentile (Pi), 50.07, calculated from step 1 (Table 2)  and find out the same Percentile in the Percentile calculated in step 3 (Table 4).**

**Table 2 (Reproduced)**

| Board Percentage (B0) | No of candidates below candidate the with Board Percentage $B_0$ | Percentile Calculation corresponding to B0 | Percentile (P) |
|---|---|---|---|
| 7% | 317 | 100 X (317/13711) | 2.31 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 13% | 575 | 100 X (575/13711) | 4.19 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 21% | 774 | 100 X (774/13711) | 5.65 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 29% | 1349 | 100 X (1349/13711) | 9.84 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 58% | 6627 | 100 X (6627/13711) | 48.33 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 60% | 6865 | 100 X (6865/13711) | 50.07 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 84% | 12203 | 100 X (12203/13711) | 89.00 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 85% | 12322 | 100 X (12322/13711) | 89.87 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 91% | 13274 | 100 X (13274/13711) | 96.81 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 94% | 13592 | 100 X (13592/13711) | 99.13 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 96% | 13651 | 100 X (13651/13711) | 99.56 |

**Table 4 (Reproduced)**

| JEE Score | No of candidates below candidate the with JEE (Main) Score | Percentile Calculation corresponding to JEE (Main) | Percentile (P) |
|---|---|---|---|
| 4 | 31 | 100 X (31/13711) | 0.23 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 12 | 400 | 100 X (400/13711) | 2.92 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 15 | 812 | 100 X (812/13711) | 5.92 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 20 | 1350 | 100 X (1350/13711) | 9.85 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 60 | 6627 | 100 X (6627/13711) | 48.33 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 80 | 6865 | 100 X (6865/13711) | 50.07 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 100 | 12203 | 100 X (12203/13711) | 89.00 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 130 | 12322 | 100 X (12322/13711) | 89.87 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 150 | 13274 | 100 X (13274/13711) | 96.81 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 220 | 13592 | 100 X (13592/13711) | 99.13 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 338 | 13651 | 100 X (13651/13711) | 99.56 |

**5. ii     Now, to find B2, find out JEE (Main) score, corresponding to the matched Percentile in 5.i. above. This is B2.**

**Here B2 = 80.**

**Table 2 (Reproduced)**

| Board Percentage (B0) | No of candidates below candidate the with Board Percentage $B_0$ | Percentile Calculation corresponding to B0 | Percentile (P) |
|---|---|---|---|
| 7% | 317 | 100 X (317/13711) | 2.31 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 13% | 575 | 100 X (575/13711) | 4.19 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 21% | 774 | 100 X (774/13711) | 5.65 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 29% | 1349 | 100 X (1349/13711) | 9.84 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 58% | 6627 | 100 X (6627/13711) | 48.33 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 60% | 6865 | 100 X (6865/13711) | 50.07 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 84% | 12203 | 100 X (12203/13711) | 89.00 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 85% | 12322 | 100 X (12322/13711) | 89.87 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 91% | 13274 | 100 X (13274/13711) | 96.81 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 94% | 13592 | 100 X (13592/13711) | 99.13 |
| --------- --------- --------- | . . . | --------- --------- --------- | --------- --------- --------- |
| 96% | 13651 | 100 X (13651/13711) | 99.56 |

**Table 4 (Reproduced)**

| JEE Score | No of candidates below candidate the with JEE (Main) Score | Percentile Calculation corresponding to JEE (Main) | Percentile (P) |
|---|---|---|---|
| 4 | 31 | 100 X (31/13711) | 0.23 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 12 | 400 | 100 X (400/13711) | 2.92 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 15 | 812 | 100 X (812/13711) | 5.92 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 20 | 1350 | 100 X (1350/13711) | 9.85 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 60 | 6627 | 100 X (6627/13711) | 48.33 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 80 | 6865 | 100 X (6865/13711) | 50.07 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 100 | 12203 | 100 X (12203/13711) | 89.00 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 130 | 12322 | 100 X (12322/13711) | 89.87 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 150 | 13274 | 100 X (13274/13711) | 96.81 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 220 | 13592 | 100 X (13592/13711) | 99.13 |
| -------- -------- -------- | . . . | -------- -------- -------- | -------- -------- -------- |
| 338 | 13651 | 100 X (13651/13711) | 99.56 |

**Step 6.** Normalised Board mark of the Candidate from Board ABCD who has scored 60% will be

$$B_{final} = 0.5 * (B1 + B2)$$

=> $B_{final} = 0.5 * (48+80)$

=> $B_{final} = 0.5 * (128)$

=> $B_{final} = 64$