

Application of Z Score

Z-score : These are standardized values that can be used to compare scores in different distributions.

Eg: Cricketer 2020 2021
India vs Australia Test Match

2020 (Stats) (3 test)

2021 (Stats)

Test Average = 181
Standard deviation = 12
Rishabh Pant = 187 ✓

Rishabh Test Average = 182

Standard deviation = 5

Rishabh Pant final Test = 185

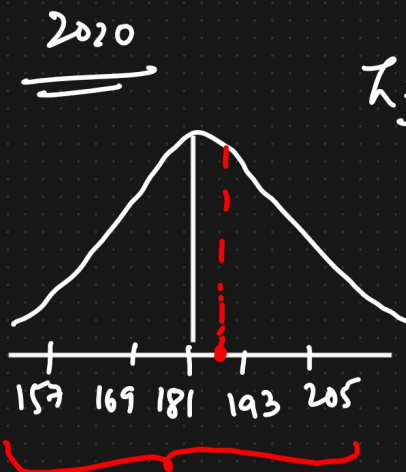
Compared to the rest of the test series, in which year was Pant's score in final game better?

Ans)

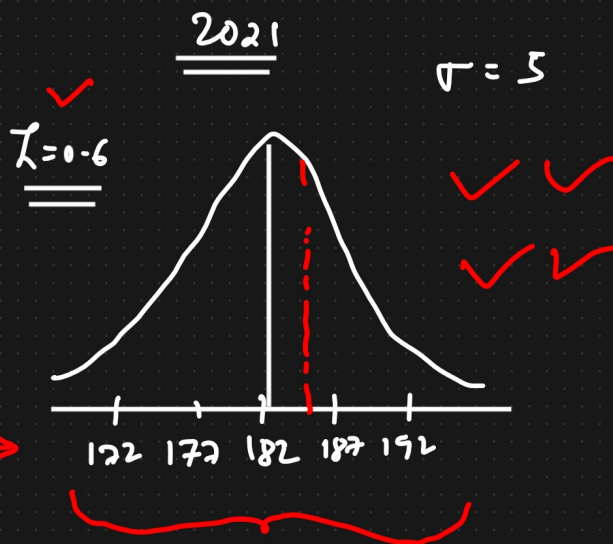
$$Z = \frac{x - \mu}{\sigma}$$

$$= \frac{187 - 181}{12} = 0.5$$

$$Z = 0.5$$



$$Z_{\text{score}} = \frac{185 - 182}{5} = 0.6$$



$$0.6 > 0.5$$