Application of Z Score

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

Eg: Cricket 2020 2021

India VS Australia Test Match

2020 (Stats) (3 test)

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

2021 (Stats)

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)

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

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

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