NORMAL DISTRIBUTION IS PROBABILTY DISTRIBUTION:

Yes!!

Normal distribution is one of the types of probability distribution and it’s the most important and commonly used distributions.

**Justification:**

* A continuous random variable has an infinite

numbers of possible values represented by intervals on the number line

* The probability distribution of a continuously random variable is called a continuous probability distribution
* A normal distribution is the most important probability distribution
* Because it fits many natural phenomena, eg. Measuring height, weight, etc.
* A normal distribution is a continuous probability distribution for random variable X

Properties of normal distribution:

* Mean, median and mode are equal
* The normal curve is bell shaped and symmetric about the mean
* The total area under a normal curve is equal to 1

**Conclusion:**

Highest probability occurs near the mean, and the probability gets lower as the distribution gets deviated from the mean