Student t distribution

In z stats when we perform any analysis using z-score

We require σ (population standard deviation) → is already known

How do we perform any analysis when we dont know
the population standard deviation?

$$\Downarrow$$

Student's t distribution

t stats

$$\boxed{t = \frac{\bar{x} - \mu}{s/\sqrt{n}}}$$

$$z = \frac{\bar{x} - \mu}{\sigma/\sqrt{n}}$$

S = Sample Standard deviation

z table

t table ⇒ t test

Degree of freedom

$$dof = n - 1 \quad = 3-1 = 2$$

3 people ☒ ☒ ☐