

$$\begin{aligned}\text{Lower Fence} &= 520 - 1.29 \times \frac{100}{\sqrt{25}} \\ &= 520 - (1.29 \times 20)\end{aligned}$$

$$= 520 - 25.8$$

$$\text{Lower Fence} = 494.2$$

$$\begin{aligned}\text{Higher Fence} &= 520 + 1.29 \times \frac{100}{\sqrt{25}} \\ &= 520 + (1.29 \times 20)\end{aligned}$$

$$= 520 + 25.8 = 545.8$$

