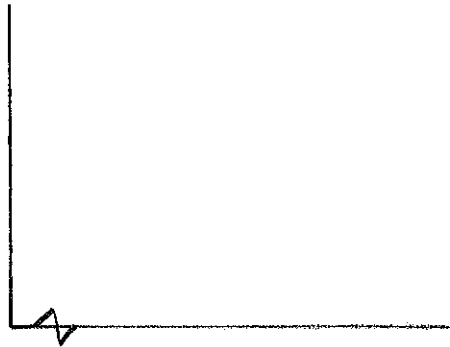


① Q.1 Use the following data to sketch a normal curve.

(μ) Mean = 70 , (σ) Standard Deviation = 3.9

Sol.

Frequency



Marks

$$\mu = 70, \quad \sigma = 3.9$$

$$\mu - 1\sigma = 70 - 3.9 \quad | \quad \mu + 1\sigma = 70 + 3.9$$

$$\boxed{\mu - 1\sigma = 66.1}$$

$$\boxed{\mu + 1\sigma = 73.9}$$

$$\mu - 2\sigma = 70 - 2(3.9) \quad | \quad \mu + 2\sigma = 70 + 2(3.9)$$

$$\mu - 2\sigma = 70 - 7.8$$

$$\mu + 2\sigma = 70 + 7.8$$

$$\boxed{\mu - 2\sigma = 62.2}$$

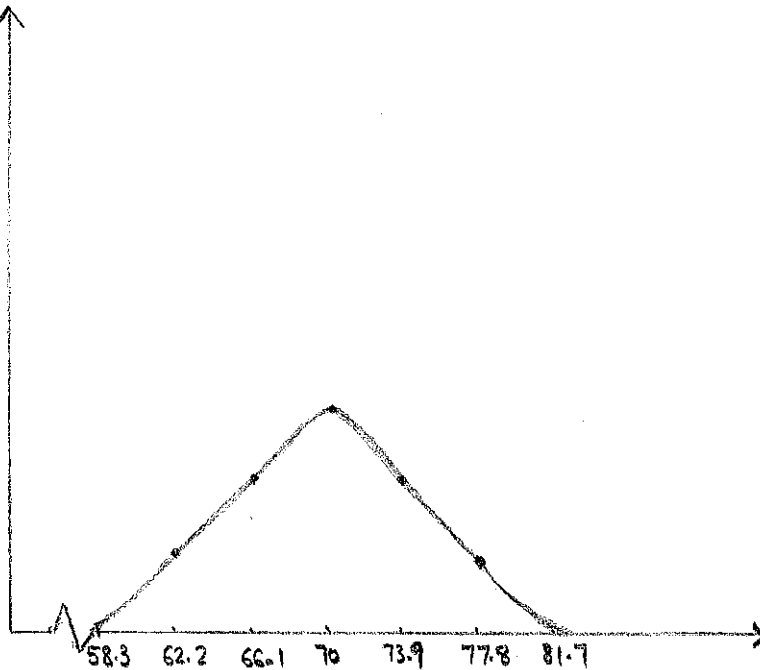
$$\boxed{\mu + 2\sigma = 77.8}$$

$$\mu - 3\sigma = 70 - 3(3.9) \quad | \quad \mu + 3\sigma = 70 + 3(3.9)$$

$$\boxed{\mu - 3\sigma = 58.3}$$

$$\boxed{\mu + 3\sigma = 81.7}$$

Frequency



Marks

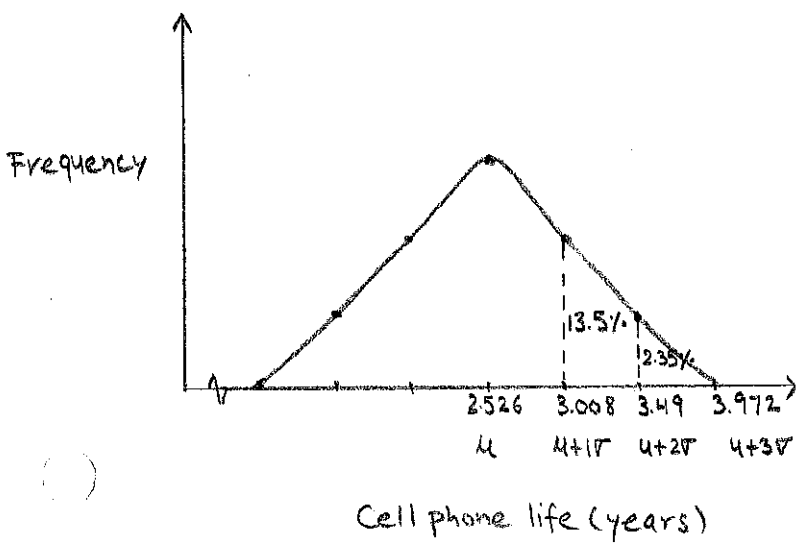
Ex. 4b/248

Information Given

SD (σ) = 0.482 years
Mean (μ) = 2.526 years

We will find

The likelihood that a phone will last more than 3 years.



Ex. 1/245

Information given

Mean (μ) = 52.5 lb

SD (σ) = 2.4 lb

We will find

Percentage of dogs to have a weight b/w 47.7 lb to 54.9 lb

