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

We have $P(x < 35) = 7\% = 0.07$

If $z_1 =$ then $P(z_1 < Z < 0) = 0.50 - 0.07 = 0.43$

$\therefore z_1 = -1.48$ (from Normal Probability table)

$$\frac{35 - \mu}{\sigma} = -1.48$$

$$35 - \mu = -1.48\,\sigma \qquad \ldots (1)$$

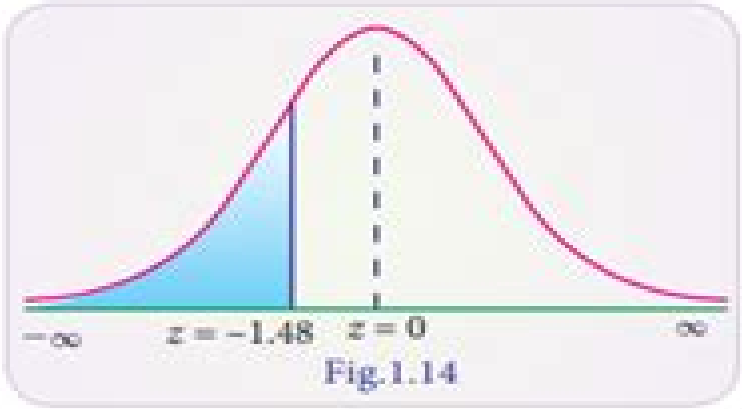

Fig.1.14

Also $P(X < 63) = 89\% = 0.89$

If $Z_2 =$ then $P(0 < Z < Z_2) = 0.89 - 0.50 = 0.39$

$Z_2 = 1.23$ (from Normal Probability table)

$$\frac{63 - \mu}{\sigma} = 1.23 \text{ (or) } 63 - \mu = 1.23\,\sigma \qquad \ldots (2)$$

$(2) - (1) \Rightarrow 28 = 2.71\,\sigma$ or $\sigma = \frac{28}{2.71} = 10.33$

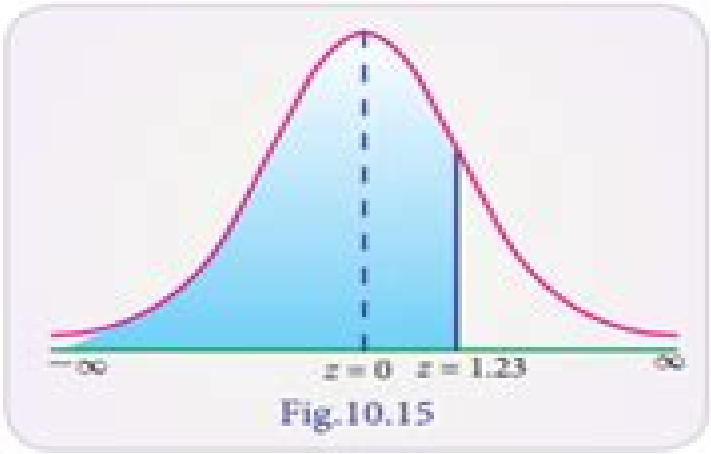

Fig.10.15

From (1) wehave

$$\mu = 35 + 1.48\,\sigma = 35 + 1.48\,(10.33)$$

$$\mu = 50.27$$

Normal Distribution Problems And Answers

Karl Dawson Wood

Normal Distribution Problems And Answers:

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